

TRANSISTOR CROSS-REFERENCE GUIDE

MITSUBISHI Texas Instruments MOTOROLA SIEMENS FAIRCHILD **NATIONAL AEG-TELEFUNKEN** RСЛ **HITACHI** Westinghouse GENERAL ELECTRIC PHILIPS TOSHIBA

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INTRODUZIONE

Questo interessante volume raccoglie circa 5.000 diversi tipi di transistori, prodotti dalle principali case europee ed americane per il settore di consumo, e fornisce di essi l'indicazione di un eventuale equivalente prodotto da case orientali.

Le case di produzione europee o americane considerate sono le seguenti:

MOTOROLA

PHILIPS

G.E. (General Electric)

R.C.A. (Radio Corp. of America)

T.I. (Texas Instruments Inc.)

WESTINGHOUSE

AEG-TELEFUNKEN

L'elencazione dei tipi di transistori prodotti da queste case si svolge simmetricamente sulle due pagine affiancate del volume, e precisamente, sulla pagina pari (a sinistra) vengono forniti i principali parametri elettrici e meccanici del transistore, mentre, sulla pagina dispari (a destra) sono indicati gli eventuali tipi equivalenti.

La descrizione del singolo tipo di transistore avviene secondo un ordine di informazioni; indicazione del tipo, materiale e polarità; parametri massimi; caratteristiche elettriche: contenitore

Tali informazioni sono ricavate dai "data-sheet" della Casa produttrice, e si è ritenuto che esse siano sufficienti per un corretto riconoscimento del transistore, relativamente almeno ai più diffusi campi di impiego.

Più in particolare, la descrizione avviene secondo i seguenti titoli, di cui forniamo breve spiegazione:

Г	1	٧L	ĭ	N/A	XIMUM	RA	TINGS			EL	ECTRICA	L CHAR	ACTERI	STICS			_			
TYPE	USE	MATERI	POLALI	Pc 25℃ (m₩)	Τj (°C)	Vos (V)	V ₀₈₀ (V)	Ic (mA)	Ι αεο · (μΑ) Vαε(V)	hre min. max lc(mA	hfe	hie (ℚ)	hre (×10)	hoe (μδ)	fr *fae **fap (MHz)	NF (dB)	Cob (pF)	Coxrbb [*] (ps)	TO-	NOTE
-		1	1								<u> </u>				Ī	T			T	1
1	2	[3]	4			5			6	[7]		[8		9	0.00	I	1	[12]	113

- 1) Indicazione del tipo (in ordine alfabetico e numerazione progressiva).
- Indicazione dell'impiego tipico cui il dispositivo è destinato. Le sigle hanno il seguente significato:

A = amplificatore (impiego generale)

AH = amplificatore per alta frequenza

APH = amplificatore di potenza per alta frequenza AP = amplificatore di potenza (impiego generale) S = commutatore (impiego generale)

SC = commutatore (sistemi logici) SH = commutatore ad alta velocità

SHP = commutatore di potenza ad alta velocità

SP = commutatore di potenza

P = transistore di potenza d'impiego generale
LF = transistore per impiego in bassa frequenza
HF = transistore per impiego in alta frequenza

Delf = stadi di riga e quadro dei televisori AL = amplificatore sensibile alla luce

AM = multiple silicon annullar transistori (presente solo nei transistori Motorola)

SW = commutatore ad alta velocità media potenza

3) Indicazione del materiale costituente:

G = Germanio

S = Silicio

4) Indicazione della polarità:

P = PNP

N = NPN

Alcuni tipi indicano transistori complessi (es. Darlington); nel caso essi comprendano transistori di entrambe le polarità, ne viene data indicazione con la sigla: 'P/N'.

5) Parametri limite; essi comprendono l'indicazione di:

Pc = Potenza massima a 25°C

 $T_1 = T$ emperatura massima della giunzione $V_{CB} = M$ assima tensione fra collettore e base

 $V_{ exttt{CEO}} \equiv exttt{Massima tensione fra emettitore e collettore, con circuito di base aperto$

c = Massima corrente nel circuito di collettore.

- 6) Indicazione della corrente dispersa nel circuito di collettore (IcBo), relativa ad una data tensione fra collettore e base (VcB) e con circuito di emettitore aperto.
- 7) Indicazione del guadagno in corrente continua nella configurazione ad emettitore comune (hfe - valori limite min. e max.), relativo ad una data corrente di collettore (Ic)

8) Indicazione dei principali parametri h, e precisamente:

 $h_{\text{fe}} = \text{guadagno} \text{ in corrente alternata per piccoli segnali, nella configurazione ad emettitore comune}$

 $h_{\text{le}} \equiv \text{impedenza}$ d'ingresso per piccoli segnali, nella configurazione ad emettitore comune

hre = rapporto di trasferimento di tensione inversa, su circuito aperto, nella configurazione ad emettitore comune

hoe = ammettenza d'uscita, per piccoli segnali, nella configurazione ad emettitore comune

- 9) Indicazione della frequenza di taglio (ft), definita come frequenza alla quale il guadagno in corrente per piccoli segnali, nella configurazione ad emettitore comune, approssima l'unità.
- 10) Indicazione della figura totale di rumore

11) Indicazione dei valori di capacità più importanti:

C_{ob} = capacità d'uscita nella configurazione a base comune

Coxrbb = costante di tempo collettore-base

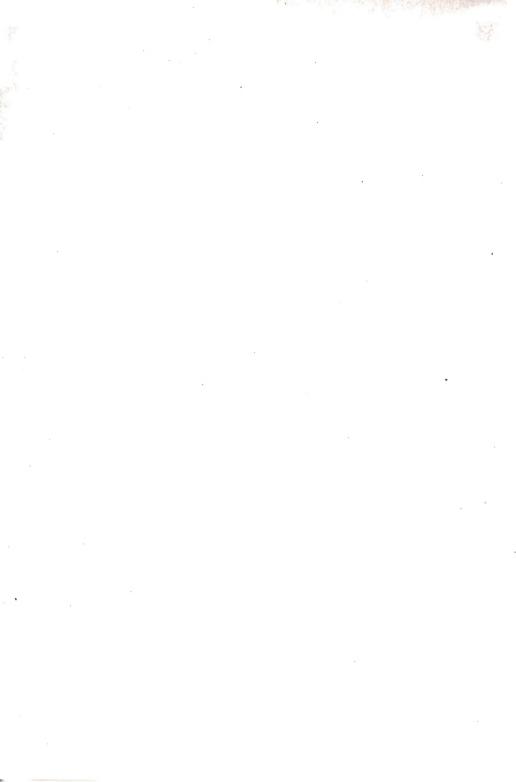
12) Indicazione del contenitore usato, secondo lo standard JEDEC (vedi il capitolo "Mechanical data")

Le Case produttrici orientali considerate per la ricerca dell'equivalente, sono le seguenti:

TOSHIBA NEC HITACHI MITSUBISHI MATSUSHITA FUJITSU SONY SANIO

Riteniamo inutile ricordare i criteri normalmente impiegati nella compilazione delle tavole di equivalenza; ci interessa però sottolineare che, per i transistori, non è possibile garantire una equivalenza assoluta. Sebbene siano stati considerati i parametri principali in relazione all'uso tipico di ogni dispositivo, nel caso di applicazione particolari possono insorgere problemi non prevedibili. Ciò vale soprattutto nei circuiti per alte e altissime frequenze.

Per questi motivi suggeriamo un attento confronto dei parametri relativi alla configurazione d'impiego, per la verifica dell'indicazione di equivalenza.



TEXAS INSTRUMENTS

		₹	₹		XIMU	M R	ATINGS	5					EL	ECTRICA	L CHAR	AUTER	21102	1 11				OUTLINE	
TYPE	USE	MATERIAL	POLALITY	Pc 25°C	Tj (*C)	Voa (V)	VCEO (V)	lc (mA)	loac (μA)	Vos(V)	min.	hre max.	Ic(mA)	hfe	hie (Q)	hre (×10)	hoe (μ ්ර)	ft *fae **fab (MHz)	NF (dB)	Cob (pF)	Coxrbb'	TO.	NOTE
2N117	Α	S	N	(mW)	175	45		25	2	30		11102	IC(IIII)			_		**4	20	7	1.	1/4	
NII8	A	S	N	150	175	45		25	2	30							-	** 5	20	7		1/4	
NII8A	A	S	N	150	175	45		25	2	30							×	** 8	20	7		1/4	
2N119	A	s	N	150	175	45		25	2 .	30	_							**6	20	7		1/4	
2N120	A	s	N	150	175	45		25	2	30								** 7	20	7		1/4	
2N243	Α	S	N	750	150	60		60	1	30	_		-										
2N244	Α	S	N	750	150	60		60	ī	30													
2N332	A	S	N	150	175	45	45	25	2	30								**6	20	. 10		5	
2N333	Α	s	N	150	175	45	45	25	2	30								**8	20	10	_	5	
2N334	Α	S	N	150	175	45	45	25	2	30								**10	20	10		5	
2N335	Α	s	N	150	175	45	45	25	2	30								**11	20	10		5	
2N336	Α	S	N	150	175	45	45	25	2	30								**13	20	10		5	
2N337	ŞW	S	N	125		45	45	20	ı	20								**20		2		5	
2N338	sw	S	N	125		45	45	20	1	20								**30		2		5	
2N339	Α	s	N	10s	150	55	55	60	1	30										_		11	
2N340	Α	s	N	10 ⁸	150	85	85	60	I	30												Ш	
2N341	Α	S	N	10 ^s	150	125	85	60	}	30												Ш	
2N342	Α	s	N	10 ⁸	150	60	60	60	ı	30												Ш	
2N343	Α	s	N	10 ^s	150	60	60	60	Ι	30												-11	
2N389	AP	s	N	85W	200		60				12	60	IA									53	
A5T404	SW	S	Р	.625	150	25		150	0.1	12	30	400	12							İ		1/17	
A5T404A	SW	S	Р	625	150	40		150	0.1	12	30	400	12	-								1/17	
A8T404	SW	S	Р	625	150	25		150	0.1	12	30	400	12									1/17	
A8T404A	sw	S	Р	625	150	40		150	0.1	12	30	400	12									1/17	
2N424	AP	S	N	85W T C 25°C	200		80				12	60	IA									53	
2N456A	AP	G	Р	150W	100	40	30	7A	500	20	30	90	5A									- 3	
2N456B	AP	G	Р	150W	100	40	30	7A	500	20	30	90	5A									3	
2N457A	AP	G	Р	150W	100	60	40	7A	500	30	30	90	5A			-						3	
2N457B	AP	G	Р	150W	100	60	40	7A	500	30	30	90	5A									3	
2N458A	AP	G	Р	150W	100	80	45	7A	500	40	30	90	5A									3	
2N458B	AP	G	P	150W	100	80	45	7A	500	40	30	90	5A									3	
2N497	AP	S	N	4W	200	60	60		10	30	12	36	200	30	250		70					5	
2N498	AP	S	N	4W	200	100	100		10	30	12	36	200	30	250		70					5	
2N511	AP	G	Р	150W	100	40	30	25A	5mA	40	20	60	10A		I							5∕11	
2N511A	AP	G	Р	150W	100	60	40	25A	5mA	60	20	60	IOA									5∕1ı	
2N511B	AP	G	Р	150W	100	80	45	25A	5mA	80	20	60	10A			$\overline{}$						5/1	
2N512	AP	G	Р	150W	100	40	30	25A	5mA	40	20	60	15A								T	%11	
2N512A	AP	G	Р	150W	100	60	40	25A	5mA	60	20	60	15A								T	%₁	
2N512B	AP	G	Р	150W	100	80	45	25A	5mA	80	20	60	15A									%₁	
2N656	AP	s	N	4W	200	60	60		10	30	30	90	200	60 -	350		90					5	
2N657	AP	S	N	4W	200	100	100		10	30	30	90	200	60	350		90					5	
2N696	АН	S	N	600	175	60		7	I	30	20	60	150							35		5	
2N697	АН	S	N	600	175	60			T	30	40	120	150							35		5	
2N698	АН	S	N	800		120			0.005	75	20	60	150		20	2.5	0.5					39	
2N699	АН	S	N	600		120			2	60	40	120	150		20	2.5	0.5					39	
2N717	sw	S	N	400	175	60			1	30	20	60	150							35		18	
2N718	sw	S	N	400	175	60			Ι	30	40	120	150							35		18	
2N718A	sw	S	N	500	200	75			0.01	60	20		0.1	35						25		18	
2N719	sw	S	N	400		120			2	60	20	60	150	25						20		18	
2N719A	SW	S	N	500		120		10 ³	0.01	75	20	60	150	25						15		18	
2N720	SW	S	N	400		120			2	60	40	120	150	45						20		18	
2N720A	SW	S.	N	500		120			0.01	90	40	120	150	45						15	L	18	
2N721	SW	S	Р	400	175	50			i	30	15		5	20						45		18	
2N722	sw	S	Р	400	175	50			1	30	25		5	30						45	L	18	
2N730	sw	s	N	500	175	60		10 ³	1	30	20	60	150							35		18	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITU	SONY	SANYO	NOTE
2N117	2SC1000	2SC1428						·	
2N118	2SC1000	2SC1428							
2N118A	2SC1000	2SC1428							
2N119	2SC1000	2SC1428							
2N120	. 2SC1000	2SC1428				-			
2N243	2SC497								
2N244	2SC497								
2N332	2SC1000	2SC1428							
2N333	2SC1000	2SC1428						•	
2N334	2SC1000	2SC1428							
2N335	2SC1000	2SC1428							
2N336	2SC1000	2SC1428						_	
2N337	2SC1000	2SC 428							^
2N338	2SC1000	2SC 1428							
2N339									
2N340									
2N341									
2N342									
2N343									
2N389	2SC161	2SC242							
A5T404	2SÀ501				2SA546A				
A5T404A	2SA501				2SA546A				
A8T404	2SA501				2SA546A				
A8T404A	2SA501				2SA546A				
2N424	2SC161	2SC240	2SD125A						
2N456A	-						2SB520 -		
2N456B							2SB520		
2N457							2SB520		
2N457							2SB520		
2N458A							2SB520		
2N458B							2SB520		
2N497A	,		2SD120						
2N498B			2SD121						
2N511									
2N511A									
2N511B									
2N512									
2N512A									
2N512B									
2N656			2SD120						
2N657			2SD121						
2N696				2SC1211	2SC456	2SC1247A			
2N697				2SC1211	2SC456	2SC1247A			
2N698									
2N699									
2N717	2SC366©			2SC1211	2SC456	2SC1247A			
2N718	2SC366©			2SCI211	2SC456	2SC1247A		_	
2N718A				2501211	2SC456	2SC1247A			
2N719	2SC497	2SC959			2SC696 A				
2N719A	2SC497	2SC959-			2SC696 A	-			
2N720	2SC497	2SC959			2SC696 A				
2N720A	2SC497	2SC959			2SC696 A				
2N721		_		2SA695	2SA546				
2N722				2SA695	2SA546				
2N730	2SC495			2SC1211	2SC456				

		7	2	M/	XIMUN	A 8/	ATINGS							CHARA	CTERIST	ICS						OUTLINE	
TYPE	USE	MATERIA	POLALITY	Pc 25°C	Tj (°C)	Vos (V)	Vero (V)	lc (mA)	l ce			heE	. (.)	hfe	hie (Ω)	hre (×10)	hoe (µō)	*!ae **!ab	NF (dB)	Cob (pF)	Coxrbb' (ps)	TO.	NOTE
	2			(mW)			(*)		(μ A)		min.		Ic(mA)		(2)	(7-24)	()-01	(MHz)	-	33		18	
2N731	SW	S	N	500	175	60		IA	0.5	30	40	120	150					-		33		50	
N849	SW	S	N	300	175	25	15	50	0.5	15	20	60	10								-	50	
N850	SW	S	N	300	175	25	15	50	0.5	15	40	120	10			-						50	
2N851	SW	S	N	300	175	20	12	200			20	60	10							-		50	
2N852	SW	S	Ν	300	175	20	12	200			40	120	10			-							
2N870	SW	S	Ν	500		100			0.01	75	40	120	150	45		-						39	
2N871	SW	S	Ν	500		100			0.01	75	100	300	150	70		_						39	
2N910	SW	S	Ν	500		100			25n	75	35		0.1	80			4					18	
N911	SW	S	Ν	500		100			25n	75	20		0.1	40								18	
2N912	SW	S	Ν	500		100			25n	75	10		0.1	20		<u> </u>					<u> </u>	18	
2N917	АН	S	N	200	200	30	15		In	15												72	
2N918	АН	S	N	200		30	15	50	10n	15									68MHZ 6			72	
D2T918	AH	S	N	200	200	30	15	50	10n	15	20		3									156	
2N929	A	S	N	300	175	45	45	30	10n	45	40	120	0.01	60		1			4	8		18	
2N930	A	S	N	300	175	45	45	30	1 0 n	45	100	300	0.01	150					3	8		. 18	
2N956	HF	S	N	500	200	75			0.01	60	35		0.01	70					8	. 8		18	
2N997	SW	S	N	500	200	75	40	300	10n	60	1000		0.01							35		18	DARLINGT
2N998	SW	S	N	500	200	100	60	500	10n	90	800		0.01							30		72	DARLINGT
2N999	SW	S	N	500		60	60	500	I On	60	1000		0.01									72	DARLINGT
2N1021	AP	G	P	150W	100	100	50	7A	500	50	30	_			_							3	
2N1021A	AP	G	P	150W	100	100	50	7A	500	50	30	90	5			+					_	3	
2N1021A	AP	G	P	150W	100	120	55	7A	500	60	30	90	5		_					l		3	
2N1022A	AP	G	F	150W	100	120	55	7A	500	60	30	90	-		-	_		_				3	
2N1022A	AP	G	P	20W	100	40	40	3A	125	20	20	60	-		_					100		5	
	_	-			100	_	60	3A	125	30	20	60	IA			1				100	1	5	1
2N1039	AP	G	P	20W	-	60		3A ·	125	40	20	60	1A			+	-			100	+	5	+
2N1040	AP	G	P	20W	100	80	80		125	50	20	60				-		-	-	100	-	5	
2N1041	AP	G	Р	20W	100	100	100	3A		20	20		_			-	-	-	_	100	+	+ -	-
2N1042	AP	G		20W	100	40		3.5A	125			_	3A	-		-		-	-	100	+	4	+
2N1043	AP	G	Р	20W	100	60		3.5A	125	30	20	60	_	_	_	+		-	-	100	+	1/63	
2N1044	AP	_	Р	20W	100	80	_	3.5A	125	40	20	60	_	6	0	+		₩		100	+	/63	_
2N1045	AP	-	Р	20W	100	100		3.5A	125	50	20	-				-		₩-	_	100	-	3	-
2N1046	AP	<u> </u>	Р	50W	100	100	50	_	2mA	75	60	_	_		-	<u> </u>	-		_	-	-	57	-
2N1047	AP	S	N	40W	200	80	80	500	15	30	12	36	500			+-	-	50	_	_		57	-
2N1047A	AP	S	N	40W	200	80	80	500	15	30	12	_					_	50			1		-
2N1047B	AP		N	40W	200	80	80	750	15	30	12	-	_					50		-	3	57	-
2N1048	AP	-	_	40W	200	120	120	500	15	30	12	_	_			_		50			-	57	-
2N1048A	AP	S	N	40W	200	120	120	500	15	30	12	_				-		50			_	57	
2N1048B	AP	_		40W	200	120	120	750	15	30	12	-	-					50	-		4	57	1
2N1049	AP	S	N	40W	200	80	80	500	15	30		90						50		<u> </u>	-	57	-
2N1049A	AP	S	N	40W	200	80	80	500	15	30		_						50			_	57	-
2N1049B	AP	S	N	40W	200	80	80	750	15	30	_	-	_				_	50_		-		57	
2N1050	AP	S	N	40W	200	120	120	500	15	30		_	500	<u> </u>				50		-		57	
2N1050A	AP	S	N	40W	200	120	120	500	15	30	30	90	500					50			1	57	<u></u>
2N1050B	AP	S	N	40W	200	120	120	750	15	30	30	90	500					50				57	
2N1131	APH	-		600	175	50	35	600	T	30	20	45	150	20				5		45		39	
2N1132	AP	-	-	600	175	50	35	600	1	30	30	90	150	30						45		39	
2N1149	Α	s	_	150	175	45		25	2	30										7	_	1∕63	
2N1150	A	S	_	_	175	45		25	2	30						\top				7		1/63	
2N1151	A	S	_	_	175	45	-	25	2	30	_	+						1		7		1/63	
2N1152	A	S	_	_	175	_		25	2	30	_	1	1			1		T		7		1/63	
2N1152	A	S	_		175	-		25	2	30	_	\vdash		 		+	\vdash	1	-	7		1/63	_
2N1154	A	S	_		150	-		60	5	50	_		+			1	1	1		+		1/63	1
2N1154 2N1155	A	S		_	150		-	50	6	80		\vdash	+		1	+	\vdash	+		+	+	4/63	
				+	150	_		40	8	120		+	+	1	\vdash	+	+	+		1	+	1/63	-
2N1156	A	S			_	_	+-	-	+	30	-	300	150	1	+	+	\vdash	+	+	+	+	5	+
2N1420	AF	S	N	600	175	60		IA	1	30	Tinc	1300	150	1					1				

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITU	SONY	SANYO	NOTE
2N731	2SC495		2501212		2SC456				
2N849			2SC282				2SC1128		
2N850			2SC282				2SC1128		
2N851	2SC735		2SC321H				-	2SC423	
2N852	2SC735		2SC321H					2SC423	
2N870	2SC497	2SC960			2SC696A				
2N871	2SC497	2SC960			2SC696A				
2N910	2SC497	2SC960			2SC696A			-	
2N911	2SC497	2SC960			2SC696A				
2N912	2SC497	2SC960			2SC696A				
2N917	2SC373	2SC923	2SC458	2SC712		2SC724		2SC536	
2N918	2SC373	2SC923	2SC 458	2SC712		2SC724		2SC536	
D2T918									
2N929	2SC1000©	2SC899	2SC1345						
2N930	2SC1000©	2SC899	2SC1345						
2N956				2SC 2		2SC1247A			
2N997	2SC982								
2N998	2SC982							-	
2N999	2SC982								
2N1021							2SB520		
2N1021A	, -						2SB520		
2N1022							2SB520		
2N1022A							2SB520		
2N1038	2SA490	2SA616							
2N1039	2SA490	2SA616							T
2N † 040	2SA489	2SA616							
2N1041	2SA489						- 1		
2N1042	2SA490	2SA616							
2N1043	2SA490	2SA616							
2N1044	2SA489	2SA616							
2N1045	2SA489								
2N1046	,	2SA650							
2N1047		2SC1185					2SC808		
2N1047A		2SC1185					2SC808		
2N1047B		2SC1185		·			2SC808		
2N1048		2SC 1185					2SC808		
2N1048A		2SC1185					2SC808		
2N1048B		2SC1185					2SC808		
2N1049		2SC 1185					2SC808		
2N1049A		2SC1185					2SC808		
2N1049B		2SC 185					2SC808		
2N1050		2SC1185					2SC808		
2N1050A		2SC1185					2SC808		
2N1050B		2SC1185					2SC808		
2N1131	2SA505	2SA606	2SA537		2SA 546				
2N1132	2SA505	2SA606	2SA537		2SA546				
2N1149	2SC372						2SC632		
2N1150	2SC372						2SC632		
2N1151	2SC372						2SC632		
2N1152	2SC372						2SC632		
2N1153	2SC372						2SC632		
2N1154	2SC594						2SC470		_
2N1155	2SC594		-				2SC 470		
2N1156	2SC 594						2SC470		
2N1420	2SC495		2SC1212*		2SC456				

		귤	<u> </u>	_	XIMUI	M R	ATINGS					-	EL	ECTRICA	L CHAR	ACTER	SHCS				1	OUTLINE	
TYPE	USE	MATERIAL	POLALITY	Pc 25°C	Tj (°C)	Vos (V)	VCEO (V)	ic (mA)	los	Vas(V)	min.	hre max.	Ic(mA)	hfe	hie (Ω)	hve (×10)	hee (μδ)	*fae **fab (MHz)	NF (dB)	Cob (pF)	Coxrbb (ps)	то.	NOTE
111507	-			(mW)	175		(*/		(μA)	30	min.	300	ISO		(46)		(,, 0,	(MHz)	(40)	(10.7	10-1	5	
N1507	HF AP	S	N P	600 1 06W		60	20	IA	20mA	40	20	40	3A			`		0.2				3	
N1529		-			100	40	30 45	5A 5A		60	20	40	3A			-		0.2			1	3	
2N1530 2N1531	AP AP	G	P	106W	100	60 80	60	5A	20mA	80	20	40	3A					0.2			-	3	
2N1531	AP	G	P	106W	100	100	75	5A	20mA 20mA	100	20	40	3A					0.2				3	
2N1533	AP	G	P	106W	100	120	90	5A	20mA	120	20	40	3A					0.2				3	
2N1534	AP	G	P	106W	100	40	30	5A	20mA	40	35	70	3A					0.2		_		3	
2N1535	AP	G	P	106W	100	60	45	5A	20mA	60	35	70	3A			-		0.2			+	3	
2N1536	AP	G	P	106W	100	80	60	5A	20mA	80	35	70	3A					0.2		_	+	3	
2N1537	AP	G	P	106W	100	100	75	5A	20mA	100	35	70	3A			-		0.2			+	3	
2N1537	AP	G	P	106W	100	120	95	5A	20mA	120	35	70	3A			-		0.2		1		3	
2N1539	AP	G	P	106W	100	40	30	5A	20mA	40	50	100	3A					0.2				3	
2N1540	AP	G	P	106W	100	60	45	5A	20mA	60	50	100	3A	_		-		0.2				3	
2N1541	AP	G	F	106W	100	80	60	5A	20mA	80	50	100	3A			+		0.2			+	3	
2N1542	AP	G	P	106W	100	100	75	5A	20mA	100	50	100	3A			-		0.2			+	3	
2N1542	AP	G	P	106W	100	120	95	5A	20mA	120	50		3A					0.2			1	3	
2N1544	AP	G	P	106W	100	40	30	5A	20mA	40	75	150	3A			-		0.2	-	\vdash	1	3	
2N1544 2N1545	AP	G	P	106W	100	60	45	5A	20mA	60	75	150	3A		_	-		0.2			+	3	
2N1545 2N1546	AP	G	P	106W	100	80	30	5A	20mA	80	75	1	3A		-		-	0.2	_		+	3	
2N1547	AP	G	P	106W	100	100	75	5A	20mA	100	75	150	3A			\vdash	_	0.2	-	-	+	3	
2N1547	AP	G	P	106W	100	120	95	5A	20mA	120	75	150	3A	-		+-	-	0.2	-	-	+-	3	
2N1566	AP	S	N	600	100	80	60	50	ZUIIIA	40	60	_	5			+	-		-	10	+	39	
2N1613	SW	S	N	800	200	75	- 00	30	0.01	60	20	200	0.1	35	_	+		-	-	35	+	5	
2N1711	A	S	N	800	200	75	-	IA	0.01	60	35	-	0.1	70	-	\vdash	-			25	+	5	
2N1711	AP	S	N	800	175	90	60	750	1	3	20	60	200	70		-	_	50		50	+-	5	
2N1714	AP	S	N	800	175	150	100	750	1	3	20	-	200			-		50	1	50	-	5	
2N1716	AP	S	N	800	175	90	60	750	1	3	40	-	200			-	-	50	-	50		5	
2N1717	AP	S	N	800	175	150	100	750	i –	3	-		200	-	-		-	50	-	50	+	5	
2N1717	AΡ	S	N	2W	175	90	60	750	<u> </u>	3	20	_	200	-		1		50		50		-	
2N1719	AP	S	N	2W	175	150	100	750	-	3	20		200			+-	1	50		50			
2N1719	AP	S	N	2W	175	90	60	750	-	3	40	-	200	-		+	1	50	\vdash	50	_		
2N1721	ΑP	S	N	2W	175	150	100	750	-	3	-	-	200		-	+	-	50	-	50	-	_	
2N1721	AP	S	N	50W	175	80	100	5A	<u> </u>	3	20	-	2A	-	-	\vdash	-	- 30		- 50	-	53	
2N1722A	AP	S	N	50W	175	180	120	5A	0.1	3	30	-	2A			+-	-	-	<u> </u>		+	53	
2N1723	AP	S	N	50W	175	120	80	5A	0.1	3	_	+	2A	-	-	-						53	
2N1724	AP	-	N	50W	175	80	00	5A	0.1	-3	20	-	2A	-		-			1		+	61	
2N1724 2N1724A	AP	S	N	50W	175	180	120	5A	0.1	3	30	-	2A	-		-	1		+-	-	+	61	
2N1724A 2N1725	AP	S	N	50W	175	120	80	5A	0.1	3	50	-	2A	-		-	_	-			+-	61	
2N1889	SW	S	N	800	1/3	100	00	JA	0.01	75	40	-	150	45		-	-	** 120		15	+	39	
2N1899	SW	S	N	800	_	100	-	-	0.01	75	100	-	150	70		+	-	** 120	-	15	+	39	
2N1890	SW	S	N	800		120		500	0.01	90	40	_	150	45		+		** 120	-	15	+	39	
2N1993	AP	G	P	60W	100	100	40	20A	2mA	75	30	-	10A	13		+		1	1	1	+	3	
2N1907 2N1908	AP	G	P	60W	100	130	50	20A	2mA	100	30	-	10A	-	-	-			-	1	+-	3	
2N1936	AP	S	N	150W	175	125	60	20A	ZIIIA	100	10	-	10A			-		-	-	1	_	63	
2N1936	AP	S	N	150W	175	125	80	20A		-	10	1	10A	-	-	-				+	_	63	
2N1937	A	S	N	800	1.73	100	30	2074	25n	75	35	+	0.1	80	-	+		**120	1	15		39	
2N1973	A	S	N	800		100	-		25n	75	20	+	0.1	40	-			** 120		15	1	39	
2N1974	A	S	N	800		100		 	25n	75	10	-	0.1	20	-	+	-	** 120	+-	15	+-	39	
2N2060	A	S	N	500	200	100	_	500	25II	80	40	-		20	-			1	+	+ "	+	1 33	
2N2060 2N2102	AP	S	N	1W	200	120	65	1A	2n 2n	60	40	+	150		-	-	+		+	\vdash	+	39	
2N2102A	AP	S	N	IW		120	65	IA	2n	60		-	150	-		+-	-	+-	\vdash	+	+-	39	
2N2102A 2N2150	AP	S	N	30W	175	120	80	6A	211	00	20		500	-			-	-	1	091	+	111	
		-	1		_	-		_	-	-	-	_	500	-	-	\vdash	+	\vdash	+	160	_	111	
2N2151	AP	S	N	30W	175	125	80	6A	100	20	40		150	_	+-	+	+	-	-	20	+	39	
2N2192	SW	S	N	800	-	60	40	IA	10n	30	-	_	_			-	-	-		20	+	39	-
2N2192A	SW	S	N	800		60	40	IA	1 0 n	30	100	300	150		L					20		33	

TYPE	TOSHIBA	NEC	нітасні	MITSUBICHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N1507	2SC486		 	2SC816	2SC775				
2N1529	2SA680	_			- 30		2SB519		
2N1530	2SA680						2SB519.		1
2N1531	2SA680				*	-	2SB519		
2N1532	2SA 679						2SB519		
2N1533	2SA 679						2SB520		
2N1534	2SA680						2SB519		
2N1535	2SA680						2SB519		
2N1536	2SA680						2SB519	T	T
2N1537	2SA679						2SB519		
2N1538	2SA 679						2SB5 20		
2N1539	2SA680						2SB519		
2N1540	2SA680						2\$B519		
2N1541	2SA680						2SB519		
2N1542	2SA679						2SB519		
2N1543	2SA679						2SB520	-	
2N1544	2SA680						2SB519		
2N1545	2SA680						2SB519		
2N1546	2SA680						2SB519		
2N1547	2SA679						2SB519		
2N1548	2SA679						2SB520		
2N1566	2SC199				2SC456	2SC1247A			
2N1613	2SC485	2SC781			2SC696				
2N1711	2SC485	2SC781			2SC696				
2N1714	2SC512	2SC959			2SC696				
2N1715	2SC510	2SC959			2SC696A				
2N1716	2SC512	2SC959			2SC696		*		
2N1717	2SC510	2SC959			2SC696A				
2N1718	2SC522				2SC697A	5	2SC756		
2N1719	2SC522				2SC697A		2SC756		
2N1720	2SC522				2SC697A		2SC756		
2N1721	2SC522				2SC697A		2SC756		
2N1722	2SC520A	2SC940	2SC1030			6			
2N1722A	2SC518A	2SC940	2SC897						
2N1723	2SC519A	2SC940	2SC897						
2N1724	2SC520A	2SC940	2SC1030						
2N1724A	2SC518A	2SC940	2SC897						
2N1725	2S€519A	2SC940	2SC897						
2N1889	2SC1382		2SC1212A				2SCI124		7
2N1890	2SC1382		2SC1212A	1			2SC1124		
2N1893	2SC1382		2SC1212A				2SC1124		
2N1907				2SB480		2\$B354			
2N1908									
2N1936	2SD113					2SD250			
2N1937	2SD113					2SD250			
2N 1973	2SC497	2SC959			2SC696				
2N1974	2SC497	2SC959			2SC696				
2N1975	2SC497	2SC959			2SC696				
2N2060						-			
2N2102	2SC510	2SC960 '			2SC696A	•	2SC756	2SC614	
2N2102A	2SC510	2SC960			2SC696A		2SC756	2SC614	
2N2150	2SC519A	. 2SC939	2SC898		2SC901				
2N2151	2SC519A	2SC939	2SC898		2SC901				
2N2192	2SC485	2SC960						2SC614	
2N2192A	2SC485	2SC960						2SC614	

		₩	≥		XIMUN	A R	ATINGS						EL	ECTRICA	L CHAR	ACTERI	STICS	1.	_	_		OUTLINE	
TYPE	USE	MATERI	POLALITY	Pc 25°C	Tj (*C)	Vos (V)	VCEO (V)	Ic (mA)	los			hfE		hfe	hie (Ω)	hre (×10)	hoe	fr *fae **fab (MHz)	NF (dB)	Cob (pF)	Coxrbb'	TO.	NOTE
A5T2192	SW	S	N	(m₩)	150	60	40	IA	(µA)	Vœ(V)	min. 100	max. 300	Ic(mA) 150		(36)	(//10)	(40)	(MHz)	(00)	20	(100)	1/1	-
N2193	SW	_	N	800	150	80	50	IA	10n	60	40	120	150			-				20	-	39	_
N2193 N2193A	SW	S	N	800				IA	10n	60	40	120	150							20		39	
	-	S			150	80	50	IA	10n	60	40	120	150							20	-	1/2	
A5T2193	SW	S	N	625	150	80	50				20		150							20		39	-
N2194	-	S	N	800		60	40	IA	10n	30	_	60				-				20	-	39	
N2194A	SW	S	N	800		60	40	IA	10n	30	20	60	150					250		8		5	
N2217	SW	S	N	800	175	60	30	800	10n	50	20	60	150					250		_	-	5	
N2218	SW	S	N	800	175	60	30	800	10n	50	40	120	150					250		- 8		5	
N2218A	SW	S	N	800	175	75	40	800	10n	60	40	120	150					250		8		-	
2T2218	SW	S	N	400	175	60	30	800	10n	50	40	120	150			_		250		8	-	1/1	
2T2218A	SW	S	N	400	175	75	40	800	10n	60	40	120	150					250		8	_	1/37	
N2219	SW	S	N	800	175	60	30	800	10n	50	100	300	150			L		250		8		5	
N2219A	SW	S	N	800	175	75	40	800	10n	60	100	300	150					300		8	<u> </u>	5	
2T2219	SW	S	N	400	175	60	30	800	10n	50	100	300	150			L'		250		8	_	1/97	
2T2219A	SW	S	Ν	400	175	75	40	800	10n	60	100	300	150					300		8		1/97	
N2220	SW	S	N	500	175	60	30	800	10n	50	20	60	150					250		8		18 .	
N2221	SW	S	N	500	175	60	30	800	1 0 n	50	40	120	150					250		8		18	
N2221A	SW	S	N	500	175	75	40	800	10n	60	40	120	150					250		8		18,	
N2222	SW	S	N	500	175	60	30	800	I0n	50	100	300	150					250		8		18	
N2222A	SW	S	N	500	175	75	40	800	I 0 n	60	100	300	150					300		8		18	
2T2222	SW	S	N	500	150	60	30	800	10n	50	100	300	150					250		8		116	
5T2222	SW	S	N	625	150	60	30	800	10n	50	100	300	150					250		8		1/17	
N2223	SW	S	N	500	200	100		500	10n	80	25	100	0.1							15		1∕105	-
N2223A	SW	S	N	500	200	100		500	10n	80	25-	100	0.1							15		1/05	
N2243	SW	S	N	800	200	120	80	IA	I0n	60	40	120	150							15		39	
N2243A	SW	S	N	800	200	120	80	IA	10n	60	40	120	150					50		15		39	
A5T2243	SW	s	N	625	150	120	80	IA	10n	60	40	120	150					50		15	+	1/2	
N2270	AP	s	N	IW		60	45	IA	50n	60	50	200	150									39	
N2303	A	s	Р	600		50		500	1	30	75	200	150	75		1				45		5	
N2387	Ā	s	N	300	175	45	45	30	IOn	45	40	120	0.01	60					4	8	<u> </u>	50	
N2388	A	s	N	300	175	45	45	30	10n	45	100	300	0.01	150					3	8	+	50	
N2389	SW	s	N	450	200	75		500	10n	60	40	120	150	35			_		12	25		50	
N2390	SW	S	N	450	200	75		500	10n	60	100	300	150	70					8	25		50	
N2393	SW	S	P	450	175	50	35	300	1	30	20	45	150	20						45		50	
N2394	-	-	P		175	_	_	300	<u> </u>	30	30	90	150	30						45	-	50	
N2394	SW	S	N	450 450	200	50	35 40	300	I On	30	20	60	150	30						73		50	
		⊢-	+			60					40	_	150								-	50	
2N2396	SW	S	N	450	200	60 30	40	300	10n 10n	30	30	120	0.01				_				-	18	
N2432	SC	S	N	300		45	30	001	10n	25 40	30		0.01			-				\vdash	-	18	
N2432A	SC	S	N	300	200		45			_	150	con		150	EN	E	30			8	\vdash	10	
N2453	A	S	N	200	200	60	30	50	5n	50	40	600 120	0.01	80	5K 13K	8	30	\vdash	4	6	+	7105	
N2483	A	S	N	360		60	60		10n 10n	45	100	500	0.01	150		8	40		3	6	-	18	
N2484	A	S	N	360		60	60	50		45	_			130	24K	0	40		3	8	+	5	
N2537	AP	S	N	800		60	30	800	250n	40	50	150	150				<u> </u>	-		8	+	5	
N2538	AP	S	N	800	_	60	30	800	250n	40	100	300	150				-			_	-	18	
N2539	AP	S	N	500	-	60	30	800	250n	40	50	150	150				<u> </u>	_		8	+	18	
N2540	AP	S	N	500		60	30	800	250n	40	100	300	150							8	 	81	
N2552	AP	G	Р	20W	100	40	40	3A	125	20	20	60	1A					<u> </u>		100	+-		
N2553	AP	G	Ρ	20W	100	60	60	3A	125	30	20	60	IA							100	-		
N2554	AP	G	Р	20W	100	80	80	3A	125	40	20	60	IA				<u> </u>	L		100	_		
N2555	AP	G	P	20W	100	001	100	3A	125	50	20	60	1A				<u> </u>			100			
N2556	ΑP	G	Р	20W	100	40	40	3A	125	20	20	60	1A							100			
N2557	AP	G	Р	20W	100	60	60	3A	125	30	20	60	IA							100		<u> </u>	
N2558	AP	G	Р	20W	100	80	80	3A	125	40	20	60	IA							100			
2N2559	AΡ	G	Ρ	20W	001	100	100	3A	125	50	20	60	1A							100			
N2560	AP	G	P	20W	100	40	40	3.5A	125	20	20	60	3A							100		I T	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
A5T2192	2SC485	2SC960	2SC708A		2SC696	7			
2N2193	2SC485	2SC960	2SC708A		2SC696				
2N2193A	2SC485	2SC960	2SC708A		2SC696			_	
A5T2193	. 2SC485	2SC960	2SC708A		2SC696	_			
2N2194	2SC485	2SC960	2SC708A		2SC696				
2N2194A	2\$C485	2SC960	2SC708A		2SC696				
2N2217	2SC485	2SC960	2SC708A		2SC696				
2N2218	2SC485	2SC960	2SC708A		2SC696		_	1	
2N2218A	2SC485	2SC960	2SC708A		2SC696				
D2T2218	2SC498								
D2T2218A	2SC498								
2N2219	2SC495	2SC960			2SC696				
2N2219A	2SC495	2SC960			2SC696				
D2T2P19	2SC498								
D2T2219A	2SC498							`	
2N2220	2SC503	2SC959		2SC307			. 1		
2N2221	2SC503	2SC959		2SC307					
2N2221A	2SC503	2SC959		2SC307		Y.			
2N2222	2SC503	2SC959		2SC307		_			
2N2222A	2SC503	2SC959		2SC307			4		
O2T2222	2SC503	2SC959	1	2SC307					
A5T2222	2SC503	2SC959		2SC307					
2N2223			1						
2N2223A									
2N2243	2SC510			-	2SC696A				
2N2243A	2SC510				2SC696A				
A5T2243	2SC510				2SC696A		,		
2N2270	2SC512				2SC696				
2N2303A	2SA498	2SA606				2SA580			
2N2387		2SC839			2SC644				
2N2388	,	2SC839			2SC644	_			
2N2389	2SC497	2SC959							
2N2390	2SC497	2SC959			8				
2N2393				2SA697	2SA546				
2N2394				2SA697	2SA546				
2N2395	2SC501	2SD227	2SC708	0	2SC456	2SC1247A			
2N2396	2SC501	2SD227	2SC708		2SC456	2SC1247A			
2N2432	2SC1380A		2SC1345						1
2N2432A	2SC1380A		2SC1345			_			
2N2453	2SC376								
2N2483	2SC788						2SC470		7
2N2484	2SC 788	,					2SC470		
2N2537	2SC486				2SC456				
2N2538	2SC486				2SC456				
2N2539	2SC486				2SC456				
2N2540	2SC486				2SC456				
2N2552	2SA490	2SA616	_		-			2SB507	
2N2553	2SA490	2SA616			-			2SB507	
2N2554	2SA489					-			
2N2555	2SA489							-	
2N2556	2SA490	2SA616		-	+			2SB507	
2N2557	2SA490	2SA616		-	-			2SB507	
2N2558	2SA489	EGABIO			-			202007	
2N2559	2SA489							_	
2N2560	2SA490	2SA616						2SB507	

		پ	_	M	AXIMU	M R	ATING	S					EL	ECTRICA	L CHAR	ACTER	STICS						
TYPE	USE	MATERIAL	POLALITY	Pc 25*C	Tj.	Vos	VCE0	Ic (=4)	las			ħrs		hfe	hie (Ω)	hre (×10)	hoe (က္တိ)	fτ *fαê **fαb	NF (dB)	Cob	Cexrbb'	OUTLINE TO.	NOTE
0110504				(mW)	(°C)	(V)	(V)	(mA)	(μA)	Vos(V)	min	max.	lc(mA)		(\$2)	(XIU)	(μ0)	**fab (MHz)	(db)	(pF)	(ps)		
2N2561 2N2562	AP AP	G	P P	20W	001	60 80	60	3.5A 3.5A	125	30	20	60	3A			-				100			
2N2563	AP	G	Р	20W	100	100	100	3.5A	125	50	20	60	3A 3A	-			-		-	100	-	-	-
2N2564	AP	G	Р	20W	100	40		3.5A	125	20	20	60	3A	-	_				_	100		5	
2N2565	AP	G	P	20W	100	60		3.5A	125	30	20	60	3A							100		5	
2N2566	AP	G	P	20W	100	80	80	3.5A	125	40	20	60	3A							100		5	
2N2567	AP	G	Р	20W	100	100	100	3.5A	125	50	20	60	3A							100		5	
2N2586	Α	S	N	300	175	60	45	30	2n	45	120	360	10						3			18	DALINGTON
2N2604	Α	S	Р	400	175	60	45	30	10n	45	40	120	10	60					4	6		46	ALD:
A5T2604	Α	S	Ρ	625	150	60	45	30	10n	45	40	120	10	60					4	6			
2N2605	Α	S	Р	400	175	60	45	30	1 0 n	45	100	300	10	150					3	6		46	
A5T2605.	Α	S	Р	625	170	60	45	30	I0n	45	100	300	10	150					3	6			
2N2639	Α	S	Z	300		45	45	30	I On	45	50		10	65					4	8		1/105	
2N2640	Α	S	N	300		45	45	30	I On	45	50	300	10	65					4	8	<u> </u>	X ₀₅	
2N2641	Α	S	N	300		45	45	30	I On	45	50	_	10	65					4	8	_	1∕05	
2N2642	A	S	N	300		45	45	30	10n	45	100		10	130				ļ	4	8	_	1/05	
2N2643	A	S	N	300		45	45	30	10n	45	100	300	10	130		_		_	4	8	ļ	1 √05	
2N2644	A AP	·S	N P	300	100	45	45	30	10n	45	100	300	10	130	ļ	-			4	8	-	⅓₀₅ 5	
2N2659 2N2660	$\overline{}$	G	-	15W	100	50	50	3A	125	25	30	90	500			├		_		100	├	5	
2N2661	AP	G	P	15W	001	70 90	70 90	3A 3A	125	35 45	30	90	500							100		5	
2N2662	AP	G	P	15W	100	50	50	3A	125	25	30	90	500							100		-	
2N2663	AP	G	P	15W	100	70	70	3A	125	35	30	90	500							100			
2N2664	AP	G	P	15W	100	90	90	3A	125	45	30	90	500						_	100		 	
2N2665	AP	G	P	15W	100	50	50	3A	125	25	50		500							100		5	
2N2666	AP	G	P	15W	100	70	70	3A	125	35	50	150	500							100		5	
2N2667	AP	G	P	15W	100	90	90	3A	125	45	50	150	500							100		5	
2N2668	AP	Ģ	Р	15W	100	50	50	3A	125	25	50	150	500			1				100			
2N2669	AP	G	Р	15W	100	70	70	3A	125	35	50	150	500							100			
2N2670	AP	G	Р	15W	100	90	90	3A	125	45	50	150	500							100			
2N2802	Α	S	Ρ	250		25	20	30	10n	25	20	120	100									1/105	
2N2803	Α	S	Ъ	250		25	20	30	1 0 n	25	20	120	100									1/105	
2N2804	Α	S	Р	250		25	20	30	I On	25	20	120	100									1/105	
2N2805	Α	S	Р	250		25	20	30	I 0 n	25	40	120	100									1/105	
2N2806	Α	S	Р	250		25	20	30	1 0 n	25	40	120	100									1/105	
2N2807	A	S	Ρ	250		25	20	30	I0n	25	40	120	100								ļ	1/05	
2N2880	AP	S	N	30W	200	100	80	5A	0.1	60	40	120	IA				-	100		ļ	<u> </u>	111	
2N2894 2N2904	SW	S	P P	360 600	200	*12 *60	40	200 600	20n	50	40	150 120	30 150					400		-		18	
D2T2904	SW	S	P	400	200	*60 60	40	600	20n	50	40	120	150	· -								1/105	_
2N2904A	SW	S	P	600	200	60	60	600	10n	50	40	120	150	 								705	-
D2T2904A	SW	S	Þ.	400	200	60	60	600	100	50	40	120	150		_	-	_					1/05	
2N2905	SW	s	P	600	200	60	40	600	20n	50	100	300	150	 								5	
D2T2905	SW	s	P	400	200	60	40	600	20n	50	100	300	150							<u> </u>		1/05	
O2T2905	SW	s	P	500	150	60	40	600	20n	50	100	300	150					_		-		1/05	
2N2905A	SW	S	Р	600	200	60	60	600	10n	50	100	300	150									5	
2N2906	SW	S	Р	400	200	60	40	600	20 n	50	40	120	150					İ		T		81	_
2N2906A	SW	S	Р	400	200	60	60	600	I On	50	40	120	150									18	
2N2907	SW	S	Р	400	200	60	40	600	20n	50	100	300	150									18	
A5T2907	SW	S	Ρ	625	ŀ50	60	40	600	20n	50	100	300	150									1/17	
2N2907A	SW	S	Ρ	400	200	60	40	600	10n	50	100	300	150									18	
2N2913	A۸	S	N	300	200	45	45	30	l On	45	60	240	10									⅓os	
2N2914	Α	S	Ν	300	200	45	45	30	I On	45	150	600	10									1/05	
2N2915	Ā	S	Ζ	300	200	45	45	30	1 0 n	45	60	240	10								L	1/05	
2N2915A	Α	S	Ν	300	200	45	45	30	1 0 n	45	60	240	10									1/105	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N2561	2SA489	2SA616			2SB513			2SB509	_
2N2562	2SB231	2SA616							
2N2563	2SB231	LOAUTO					_		
2N2564	2SA490	2SA616	2SA670		2SB513		_	2SB509	
	2SA489	2SA616	23A070		2SB513			2SB509	
2N2565					238313			200303	_
2N2566	2SA489	2SA616							+
2N2567		0.0000		2001010					+
2N2586	2SC 979	2SC899	2SC1345	2SC1313		004500	1	-	+
2N2604	2SC497					2SA523			+
A5T2604	2SC497					2SA523			
2N2605	2SC497								
A5T2605 .	2SC497		9						
2N2639	2SA502	2SA579					2SA678		
2N2640	2SA502	2SA579					2SA678		
2N2641	2SA502	2SA579					2SA678		
2N2642	2SA502	2SA579					2SA678		
2N2643	2SA502	2SA579					2SA678		
2N2644	2SA502	2SA579					2SA678		1
2N2659	2SB434	1	2SB107A		2SB449			2SB216	
2N2660	2SB503		200.074		2SB513			2SB215	+
2N2661	2SB502				255510			200-10	_
		202616						_	
2N2662	2SB503	2SA616						+	
2N2663	2SB503	2SA616						-	
2N2664	2SB502								
2N2665	2SB503	2SA616							+
2N2666	2SB502	2SA616		\ \					
2N2667	2SB502								
2N2668	2SB434	2SA616			2SB449				
2N2669	2SB502	2SA616							
2N2670	2SB503								
2N2802	2SA502	2SA578							
2N2803	2SA502	2SA578							
2N2804	2SA502	2SA578							
2N2805	2SA502	2SA578						7	
2N2806	2SA502	2SA578							
2N2807	2SA502	2SA578							-
2N2880	2SC519	23A376			2SC697				
			004527					+	
2N2894	2SA594		2SA537	_	2SA546				
2N2904	2SA516	2SA571	2SA537		2SA546				
D2T2904	2SA516				2SA546				_
2N2904A	2SA516	2SA571	2SA537	-	2SA546		-	+	
D2T2904A	2SA516				2SA546			-	-
2N2905	2SA516	2SA571	2SA537		2SA546			1	
D2T2905				<u> </u>	2SA546			1	-
Q2T2905					2SA546				
2N2905A		2SA571	2SA537		2SA546				
2N2906		2SA571	2SA537		2SA546				
2N2906A	_	2SA571	2SA537		2SA546				
2N2907		2SA571	2SA537						
A5T2907		2SA571	2SA537						1
2N2907A		2SA571	2SA537						+
2N2917A	2SC383	2043/1	2SC984	2SC773					+
	2SC383		2SC984 2SC984	250773			 	+	
2N2914		-	2SC984 2SC984	2SC773			-		
2N2915	2SC383								
2N2915A	2SC383		2SC984	2SC773					

	B			M	AXIMU	M R	ATING	s					EL	ECTRICA	AL CHAR	ACTER	ISTICS	_			_		
TYPE	USE	ERIAL	Ę	Pc	Ti	Vœ	VCEO	lc	las	10		hre		hfe	hie	hre	hoe	fr *fae	NF	Cob	Coxrbb	OUTLINE	NOTE
1111	1000	MATERI	Polal	25°C (mW)	(*c)	(v)	(V)	(mA)	(μ A)	Vcs(V)	min.	max.	lc(mA)	me	(Q)	(×10)		**fab (MHz)	(dB)	(pF)	(ps)	TO.	
2N2916	A	S	N	300	200	45	45	30	10n	45	150	600	10m					(MHZ)				Kos	
2N2916A	A	S	N	300	200	45	45	30	10n	45	150	600	10m			-					 	105	
2N2917	A	s	N	300		45	45	30	10n	45	60	240	10m		-	-						1/05	
2N2918	A	s	N	300		45	45	30	10n	45	150	600	10m	-	-		-				-	105	
2N2919	A	s	N	300		60	60	30	2n	45	60	240	10m	_								1/05	
2N2919A	A	S	N	300		60	60	30	2n	45	60	240	10m			-						1/05	
2N2920	A	S	N	300		60	60	30	20	45	150	600	10 m				3				_	1/05	
2N2920A	A	S	N	300		60	60	30	2n	45	150	600		-		-						1/05	
2N2944	A	S	Р	400		15	10	100	0. In		80	-	1		-	-					_	46	
2N2944A	A	S	Р	400		15	10	100	0. In	_	100		i	-	_	-						46	
2N2945	A	S	Р	400		25	20	100	0.2n		40		i									46	
2N2945A	II A	S	P	400		25	20	100	0.2n	_	70	-	i		_					_	1	46	
2N2946	A	S	P	400		40	35	100	0.5n		30		i		_	_					1	46	
2N2946A	A	S	Р	400	-	40	35	100	0.5n		50		i	_			-			-	1	46	
2N2972	A	S	N	250		45	45	30	10n	45		240	10 m									71	
2N2973	Α	s	N	250		45	45	30	10n	45	150	600	10m				1				-	71	
2N2974	A	S	N	250		45	45	30	10n	45	60	240	10m								\vdash	71	
2N2975	Α	s	N	250		45	45	30	IOn	45	150	600	10m									71 /	
2N2976	A	s	N	250		45	45	30	10n	45	60	240	10m						\vdash	_		71	-
2N2977	A	S	N	250		45	45	30	10n	45	150	600	10 m									71	
2N2978	A	s	N	250	- 0	60	60	30	2n	45	60	240	10m									71	
2N2979	Α	s	N	250		60	60	30	2n	45	150	600	10m			<u> </u>	_					71	
2N2987	AP	S	N	15W	200	95	80	IΑ			25	75	200						_			5	
2N2988	AP	S	N	15W	200	155	100	1A			25	75	200									5	
2N2989	AP	s	N	15W	200	95	80	IA			60	120	200									5	
2N2990	AP	S	Ν	15W	200	155	100	IA			60	120	200								6	5	
2N2991	AP	S	N	15W	200	95	80	IA			25	75	200										
2N2992	AP	S	N	15W	200	155	100	1A			25	75	200										
2N2993	AP	S	N	15W	200	95	80	IA			60	120	200										
2N2994	AP	S	N	15W	200	155	100	IA			60	120	200		_								
2N3012	SW	S	Р	360	200	12	12	200			30	120	30					400				18	
2N3015	SW	S	N	800	200	60	30		200	30 TA125	30	120	150									5	
2N3021	AP	S	P	25W	175	30	30	3A	-		20	60	IA									3	- (
2N3022	AP	S	Р	25W	175	45	45	3A			20	60	IA									3	
2N3023	AP	S	Р	25W	175	60	60	3A			20	60	IA							-		3	
2N3024	AP	S	Р	25W	175	30	30	3A			20	60	IA									3	
2N3025	AP	S	P	25W	175	45	45	3A			20	60	IA									3	
2N3026	AP	S	P	25W	175	60	60	3A		-	20	60	IA									3	
2N3036	sw	S	N	800		120	80	1200	10n	60	50	150	150	40	120		120			15		39	
2N3037	sw	S	N	360		120	70	500	I0n	60	40	120	150	30	90		100			15		1/179	
2N3038	SW	S	N	360		100	60	500	10n	60	80	240	150	60	180		200			15		1/19	
2N3039	SW	S	Ρ	360		50	35	500	25n	30	20	80	150	20	60		250			40		1/19	
2N3040	SW	S	Ρ	360		40	30	500	25n	30	40	160	150	40	120		500			40		1/19	
2N3043	Α	S	N	250		45	45	30	10n	45	100	300	10m									89	
2N3044	A	S	N	250		45	45	30	I0n	45	100	300	10m									89	
2N3045	Α	S	N	250		45	45	30	I On	45	100	300	10m									89	
2N3046	Α	S	N	250		45	45	30	I0n	45	50	200	10m									89	
2N3047	A`	S	Ν	250		45	45	30	10n	45	50	200	10m							<i>'</i>		89	
2N3048	Α	S	Ν	250		45	45	30	10n	45	50	200	10m									89	
2N3049	Α	S	Ρ	250		25	20	100	10n	25	30	120	1									89	
2N3050	Α	S	Ρ	250		25	20	100	I 0 n	25	30	120	i.									89	
2N3051	Α	S	Р	250		25	20	100	I On	25	30	120	T									89	
2N3052	Α	S	N	250		35	15	200	25n	20	25	120	10									89	
2N3053	Α	S	N	IW		60	40	700			50	250	150				- 1	100				39	-
2N3055	AP	S	N	115W	200	100	70	I5A			20	70	4A	15								3	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N2916		2SC1330			2SC1360				
2N2916 A		2SC1330			2SC1360			-	
2N2917		2SC1330			2SC1360				
2N2918		2SC1330			2SC1360				
2N2919	2SC979			2SC714		2SC205			
2N2919A	2SC979			2SC714		2SC205			
2N2920	2SC979			2SC714		2SC205			
2N2920 A	2SC979			2SC714		2SC205			
2N2944		2SA643							
2N2944 A		2SA643	2SA741						
2N2945		2SA643	2SA741					1	
2N2945 A		2SA643	2SA741	_					
2N2946		2SA643	2SA741		_				_
2N2946 A		2SA643	2SA741			20022			
2N2972	2SC979		2SA741	250714		2SC205			
2N2973	2SC979			2SC714 2SC714		2SC205 2SC205	_	+	+
2N2974	2SC979		-					 	
2N2975	2SC979 2SC979			2SC714 2SC714	-	2SC205 2SC205			
2N2976									
2N2977	2SC979			2SC714 2SC714		2SC205 2SC205			
2N2978	2SC979 2SC979			2SC714 2SC714		2SC205			
2N2979	2SC488			230714		230203			
2N2987									
2N2988 2N2989	2SC488 2SC488					- 0			
2N2989 2N2990	2SC488						-		
2N2991	2SC488	_							<u> </u>
2N2991 2N2992	2SC488		_						
2N2993	2SC488								
2N2994	2SC488								
2N3012	230400		2SA537		2SA546				
2N3015	2SC503	2SC959	LOAGO		20,1010			 	
2N3021	2SA490	2SA616			_			2SB509	
2N3022	2SA490	2SA616						2SB509	
2N3023	2SA489	2SA616			_			2SB509	
2N3024	2SA490	2SA616						2SB509	
2N3025	2SA490	2SA616						2SB509	
2N3026	2SA489	2SA616						2SB509	
2N3036	2SC484								
2N3037	2SC1382								
2N3038	2SC1382	- 12	- 0						
2N3039		2SA606	2SA537		2SA546	2SA580			
2N3040		2SA606	2SA537		2SA546	2SA580			
2N3043	2SC979					2SC205			
2N3044	2SC979			2SC714		2SC205			
2N3045	2SC979			2SC714		2SC205			
2N3046	2SC979			2SC714		2SC205			
2N3047	2SC979			2SC714		2SC205			
2N3048	2SC979			2SC714		2SC205	'		
2N3049		,		2SC714					
2N3050		2SA711						_	
2N3051	1.0	2SA711		ļ				_	
2N3052	2SC979					2SC205			
2N3053		2SC959		2SC714	2SC456				
2N3055	2SC1080		2SC1343						

	1	AL.	_	м	AXIML	M F	RATING	S					E	LECTRICA	AL CHAR	RACTER	HSTICS						
TYPE	USE	MATERIA	A∐ĭ	Pc	Tj	Vos	VCEO	lc	lo	280		hre		hfe	hie	hre	hoe	fr *fae	NE	Coh	Coxrbb	OUTLINE	NOTE
		MA	POLAL	25°C (mW)	(°C)	(v)	(v)	(mA)	(µA)	Vca(V	min.	max.	lc(mA)	1	(Ω)	(×10)		**fab (MHz)	(dB)	(pF)	(ps)	TO.	
2N3114	АН	S	N	800		150	150	200	10n	100	30	120		 		+		(mnz)			1	39	
2N3117	A	ŝ	N	360		60	60	-	10n	45	250			400	IOK	8	40	<u> </u>	4		1	18	
2N3146	AP	G	Р	150W	100	150	140		10mA		30	+	_	20	1011	+	10	 -	-	-	-	3	
2N3147	AP	G	P	150W	100	180	160	_	10mA	_	30	_		20	1	+		├-				3	
2N3244	A	s	P	IW		40	40	_	50n	30	_	150			 	+	_	175			+	39	
2N3245	Α	S	P	IW		50	50	_	50n	50	30				+	+		150				39	
2N3250	SW	S	P	360	200	50	40	_		+		150		50	6K	10	10	250				18	
2N3250A	SW	s	Р	360	200	60	60	-			50	_		50	6K	10	10	250				18	
2N3251	sw	S	Р	360	200	50	40	200			100		10	100	12K	10	60	300			_	18	
2N3251A	SW	S	Р	360	200	60	60	200			100	300	10	100	12K	10	60	300		<u> </u>		18	
2N3252	SW	s	Ν	ΙW	200	60	30	IΑ	0.5	40	30	90	500					200			Τ.	39	
2N3253	SW	S	N	IW	200	75	40	IA	0.5	60	25	75	500			 		175				39	
2N3263	PAH	S	N	83W	200	150	90	25A			20	55	15A					20	_		Υ.	5/17	
2N3264	PAH	S	N	83W	200	120	60	25A			20	55	15A					20	_		\vdash	5/17	
2N3265	PAH	s	Ν	125W	200	150	90	25A			20	80	15A					20				63	
2N3266	PAH	S	Ν	125W	200	120	60	25A			20	80	15A					20			T	63	
2N3347	Α	S	Ρ	300		60	45	30	10n	45	40	300	10M									1 /105	
2N3348	Α	S	Ρ	300		60	45	30	10n	45	40	300	IOM			T					T	∜tes	
2N3349	Α	S	Р	300		60	45	30	1 0 n	45	40	300	IOM									Хes	
2N3350	-А	S	Р	300		60	45	30	I 0 n	45	100	300	MOI									1/05	
2N3351	Α	S	Р	300		60	45	30	I On	45	100	300	IOM									1/05	
2N3352	Α	S	Р	300		60	45	30	I 0 n	45	100	300	IOM									1/05	
A5T3391	АН	S	N	625	150	25	25	100	100n	25	250	400	2									1/17	
A7T3391	АН	S	N	625	150	25	25	100	100n	25	250	400	2									1 /17	-
A8T3391	АН	S	Ν	625	150	25	25	100	I,00n	25	250	400	2									1/17	
A5T3391A	АН	S	Ν	625	150	25	25	100	I,00n	25	250	400	2						5			1/17	
A7T3391A	ΑН	S	Ν	625	150	25	25	100	100n	25	250	400	2						5			1/17	
A8T3391A	АН	S	N	625	150	25	25	100	100n	25	250	400	2						5			1/7	
45T3392	АН	S	N	625	150	25	25	100	100n	25	150	300	2									1/17	
A7T3392	АН	S	Ν	625	150	25	25	100	100n	25	150	300	2									1/7	
48T3392	АН	S	Ν	625	150	25	25	100	100n	25	150	300	2									1/17	
2N3418	AP	S	Ν	15W	200	85	60	3A			20	60	1		-			40				5	
2N3419	AP	S	Ν		200	.125	80	3A			20	60	1					40				5	
2N3420	AP	S	Ν	15W	200	80	60	3A			40	120	1					40				5	
N3421	AP	S	N	15W	200	125	80	3A			40	120	1					40				5	
N3439	AP	_	N	5W	200	450	350		2	360	40	160	20					15				5	
N3440	AP	S	N		200	300	250		2	250	40	160	20					15				. 5	
N3444	SW	S	N		200	80	50	_	0.5	60	20	60	500					150				39	
N3467	AP	S	Р	IW		40	40	IA	100n	30	40	120	500					175				39	
N3468	AP	_	P	IW		50	50	IA	100n	30	25	75	500					150			Ш	39	
N3485	SW	S		400		60	40		20n	50	40	120	150									46	
N3485A	SW			400:		60	60	600	I On	50	40	120	150								L	46	
N3486	SW	_	Р	400		60	40		20n	50	10	300	150									46	
N3486A	SW	\rightarrow	_	400		60	60	_	I0n	50	10	300	150									46	
N3494	SW	\rightarrow	_		200	80	80	_	1.0	50	40		10									5	
N3495	SW	_	\rightarrow		200	120	120	_	0.1	90	40		10									5	
N3496	SW	-	_		200	80	80		0.1	50	40		10									18	
N3497	SW				200	120	120		0.1	90	40		10									18	
5T3496	SW	\rightarrow			150	80	80	-	0.1	50	40		10	-							L	1/17	
5T3497	_	_	_	_	150	120	120		0.1	90	40		10									1/17	
	SW	-	-+	-	200	45	45		10	30		300	150	135	23K	15	800		4			5	
N3503	_	-	\rightarrow		200	60	60	600	10	50	_	300	150	135	23K	15	800		4			5	
	SW	\rightarrow			200	45	45		10	30	100	300	150	135	23K	15	800		4			18	
N3505	_	\rightarrow			200	60	60	_	10	50	100	300	150	135	23K	15	800		4			18	
5T3404	SW	S	Р	625	150	45	45	600	10	30	100	300	150	135	23K	15	800		4			1 / ₇	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
21/21/4		2SC1217							
N3114		2301211		-		2SC727			
N3117	2SC788					200727	2SB520		
N3146				-			2SB520		
N3147					-		2SA706		
N3244							2SA706		
2N3245		201504			2SA546A	2SA558	254700		
2N3250		2SA504			2SA546A	25A330			
2N3250A		2SA504			2SA546A	2SA558			
2N3251		2SA504			2SA546A	23A330		_	
2N3251A	200.10-	2SA504			2SC696				
2N3252	2SC485				2SC696				
2N3253	2SC485				250696	2SC1301	-		
2N3263	2SC1435					2SC1301	-		
2N3264	2SC1435			-	-	2SC1301	-		
2N3265	2SC1435			-	-	2SC1301			
2N3266	2SC1435				-	2301301	2SA678		_
2N3347	2SA502	2SA675		-			2SA678 2SA678		
2N3348	2SA502	2SA675		-	-		2SA678 2SA678		
2N3349	2SA502	2SA675					2SA678 2SA678		
2N3350	2SA502	2SA675						<u>-</u>	
2N3351	2SA502	2SA675					2SA678		-
2N3352	2SA502	2SA675					2SA678	-	
A5T3391				2SC442		2SC202		<u> </u>	
A7T3391				2SC442		2SC202			
A8T3391				2SC442		2SC202			
A5T3391A	-			2SC442		2SC202			
A7T3391A				2SC442		2SC202	\ \ \		-
A8T3391A				2SC442		2SC202			
A5T3392				2SC442		2SC202			
A7T3392				2SC442		2SC202			
A8⊤3392				2SC442		2SC202			
2N3418			2SC1055						
2N3419			2SC1055						
2N3420	_		2SC1055						
2N3421			2SC1055						
2N3439					2SD198	2SC825	2SC895-3		
2N3440					2SD198	2SC825	2SC895-3		
2N3444		1						2SC614	
2N3467							2SA706		
2N3468					· ·		2SA706		
2N3485		2SA606	2SA537			2SA580			
2N3485A		2SA606	2SA537			2SA580			
2N3486		2SA606	2SA537			2SA580			
2N3486A		2SA606	2SA537			2SA580		_	
2N3494		2SA712	20.1007						
2N3494 2N3495	-	2SA712							
2N3495 2N3496		2SA712							
		2SA712 2SA712			_				
2N3497		2SA712 2SA712	 						
A5T3496		2SA712		_	+ -				
A5T3497		-	20 4 5 2 7			2SA580	-		_
2N3502		2SA606	2SA537	+	+	2SA580 2SA580	 		
2N3503		2SA606	2SA537		_	2SA580 2SA580	-		
2N3504		2SA606	2SA537	-					-
2N3505		. 2SA606	2SA537	-	+	2SA580		_	
A5T3404		2SA606	2SA537			2SA580	-		

		¥			MAXIMU	M F	RATING	is					E	ECTRIC	AL CHAR	RACTER	ISTICS						-
TYPE	USE	MATER	POINTY	Pc 25*C	Tj	Vos	ACEO		lo	80		hee		hfe	hie	hre	hoe	fτ *fαe	NF	Cob	Coxrbb	OUTLINE	NOTE
	<u> </u>	_	_	(11117)	(°C)	(v)	(v)		(µA)	Vcs(V	-	max.	lc(mA)		(0)	(×10)	(µg)	**fab (MHz)	(dB)	(pF)	(ps)	T0.	
A5T3405	SW	-	-		150	60	60		10	50			150	135	23K	15	800		4	-		1/17	
2N3551	AP	S	-		175	115	60				20		10A									3/1	
2N3552	AP	S	-	_	175	140	80				20	_	10A			<u> </u>						. 3/1	
2N3554 A5T3565	SW	S	_	-	200	60	30	_	50.	0.5	25	100	750									39	
2N3570	AH	_			150	30	25 15		50n 10n	25	150	600 150	5	120	20K		100	1.50				1/17	
2N3571	AH	S			150	25	15	50	10n	6	20		5		ļ			1.5G				72	
2N3572	AH	-	-	_	150	25	13		10n	6	20	_	5					1.5G	I GNZ		-	72	
A5T3571	AH	-	_		150	25	15	50	IOn	6	20		5		-			1.5G	I GNZ		-	1/2	-
A5T3572	АН	-	+-		150	25	13	50	10n	6	20	300	5		-			1.5G	I GNZ			1/7	
2N3576	АН	s	P		200	20	15	200	-	<u> </u>	40	120	10				_	400	1 0112			18	_
N3583	AP	S	N	35W	200	250	175	IA			40	200	500								-	66	
N3584	AP	s	N	35W	200	375	250	2A			8	80	1A					-				66	
N3585	AP	s	N	35W	200	500	300	2A			8	80	IA									66	
N3634	SW	S	P	IW	200	140	140	IA	100n	100	50	150	50	40	0.6K	3	200			10		39	
N3635	SW	S	P	IW	200	140	140	IA	100n	100	100	300	50	80	1.2K	3	200			10		39	
N3636	SW	S	P	ΙW	200	175	175	IA	100n	100	50	150	50	40	0.6K	3	200			10		39	
2N3637	sw	S	Р	IW	200	175	175	IA	100n	100	100	300	50	80	1.2K	3	200			10		39	-
A5T3638	SW	S	Р	625	150	25	25	500			20		10	25	2K	26	1.2			20		4/17	
A5T3638A	SW	S	Р	625	150	25	25	500			100		10	100	2K	15	1.2			10		1/17	
A5T3644	SW	S	P	625	150	45	45	600			100	300	150	100	1.8K	3	300			8		1/17	
A5T3645	SW	S	Р	625	150	60	60	600	-		100	300	150	100	1.8K	3	300			8		1/17	
N3680	Α	S	N	300		60	50	30	10n	4.5	150	600	10#									1/105	
N3702	Α	S	Р	360	150	40	25	200	100n	20		300	50					100				1 √7	
A8T3702	Α	S	Р	625	150	40	25	200	100n	20	_	300	50					100				1/17	
N3703	Α	S	Р	360	150	50	30	200	. 100n	20	30	150	50					100				1/17	
A8T3703	Α	S	Р	625	150	50	30	200	100n	20	30	150	50					100				1/2	
N3704	Α	S	N	360	150	50	30	800	100n	20	-	300	50					100				1/17	
A8T3704	A	s	N	625	150	50	30	800	100n	20		300	50					100				1/17	
N3705	Α	S	N	360	150	50	30	800	100n	20	-	150	50					100				1/17	
N3706	Α	S	N	625	150	50	30	800	100n	20		150	50					100				% 7	
A8T3706	A	S	N	360 625	150	40	20	800	100n	20		600	50					100				1/17	
N3707	A	S	N		150	30	30	800 30	100n	20		600	50					100				1/1	
5T3707	A	S	N	360 625	150	30	30	30	100n 100n	20	100	400	0.1	_		-	-	-	1.9			1/17	
8T3707	A	S	N	625	150	30	30	30	100n	20	100		0.1			-	_	-	1.9			1/17	
N3708	A	S	N	360	150	30	30	30	100n	20	45		0.1						1.3			1/ ₁₇	
5T3708	Ā	S	N	625	150	30	30	30	100n	20	45	_	++			\dashv	-	-				X1 X1	
8T3708	A	s	N	360	150	30	30	30	100n	20	_	660	i			-+		-	-			1/7	
N3709	Α	S	N	625	150	30	30	30	100n	20	_	165	i				-	-	-			4/7	
5T3709	Α	S	N	360	150	30	30	30	100n	20		165	1			\dashv		-		-+		4/7	
8T3709	Α	S	N	625	150	30	30	30	100n	20	$\overline{}$	165	1			\dashv						1/2	
N3710	Α	S	N	360	150	30	30	30	100n	20		330	П	$\neg \neg$								1/7	
5T37I0	Α	S	N	625	150	30	30	30	100n	20	90	330	1									1/17	
8T3710	Α	S	Ν	360	150	30	30	30	100n	20	90	330	1				$\neg \uparrow$				\neg	1/17	
N3711	Α	S	Ν	625	150	30	30	30	100n	20	180	660	1			\neg	\neg					1/17	
5T3711	Α	S	N	625	150	30	30	30	100n	20	180	660	1									1/2	
8T3711	Α	S	N	360	150	30	30	30	100n	20	180	660	1									1/17	
N3713	_		Ν	150W	200	80	60	IOA			25	75	IA					4				3	
N3714	AP	S	N	150W	200	100	80	IOA			25	75	IA					4	$\neg \uparrow$	\neg		3	
N3715	AP	s	Ν	150W	200	- 80	60	I0A			50	150	IA		\Box			4	7		\neg	3	
N3716		_	Ν	150W	200	100	80	IOA			50	150	1A					4				3 '	
N3719	_		Ρ	6W	200	40	40	3A	10	40	25	180	IA		1						\neg	5	
N3720			Ρ	6W	200	60	60	3A	10	60	25	180	IA								\neg	5	
N3724	Α	s	Ν	800	200	50	30	500	1.7	40	60	150	100									39	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
A5T3405		2 SA606			2SA546	2SA580			
2N3551		2SD181	2SD341						
2N3552		2SD181							
2N3554					2SC696		2SC1124		
A5T3565		2SC852				2SC1068		Q. May 10.	
2N3570		2SC852		2SC1223		2\$C1068			
2N3571		2SC852		2SC1223		2\$C1068			
2N3572		2SC852		2SC1223		2SC1068	_		
A5T3571		2SC852		2501223		2SC1068			
A5T3572		2SC852		2SC1223		2SC1068			
2N3576	2SA467		2SA537		2SA546				
2N3583	2SC792								
2N3584	2SC792	-			t	2SC1463		-	-
2N3585	20011					2SC1463			
2N3634	2SA516A						2SA762		
2N3635	2SA516A						2SA762		15-00
2N3636	20/310/1						2011102		
2N3637						-			
A5T3638	2SA496	2SA717	2SA537	2SA695	2SA546	2SA580		2SA532	
A5T3638A	2SA496	2SA717	2SA537	2SA695	2SA546	2SA580		2SA532	1
A5T3644	2SA594	ZSATIT	23A331	23A033	2SA546	23A380		23A332	f -
A5T3645	2SA594				2SA546				
2N3680	25A394	,			25A346				-
2N3702	2SA509G	2SA643							
A8T3702	2SA509G 2SA509G	2SA643 2SA643							
2N3703	2SA303G 2SA498	2SA544							
A8T3703	2SA498 2SA498	2SA544	-		<u> </u>				
2N3704	2SC498	Z3A344				2SC1247A			
A8T3704	2SC498 2SC498					2SC1247A			
2N3705	2SC498					2SC1247A			
A8T3705	2SC498					2SC1247A			
2N3706	2SC498								
A8T3706	2SC498					2SC1247A 2SC1247A			
2N3707									
A5T3707	2SC509 2SC509			-		2SC1246 2SC1246			
	2SC509 2SC509					2SC1246			
A8T3707 2N3708	2SC509 2SC509								
	2SC509 2SC509					2SC1246			
A5T3708	2SC509 2SC509					2SC1246 2SC1246			
A8T3708	2SC509 2SC509					2SC1246			
2N3709 A5T3709			7			2SC1246			
	2SC509		-		-				
A8T3709	2SC509				-	2SC1246 2SC1246			
2N3710	2SC509					2SC1246 2SC1246			
A5T3710	2SC509		-						
A8T3710	2SC509		-		-X-	2SC1246	_		
2N3711	2SC509		-		· -	2SC1246			
A5T3711	2SC509					2SC1246			
A8T3711	2SC509		2001242		-	2SC1246	200240		-
2N3713	2SC1080	*	2501343				2SD340		
2N3714	2SC1079		2SC1343				2SD340		
2N3715	2SC1080		2SC1343				2SD340		
2N3716	2SC1079		2SC1343				2SD340		
2N3719	2SA490	2SA616							
2N3720	2SA490	2SA616							
2N3724			2SC 1212						

		-	_	MA	XIMUN	A R	ATINGS	;					ELI	CTRICA	L CHAR	ACTERI	STICS					OUTLINE	
TYPE	USE	MATERIA	POLAUTY	Pc	Tj	Vos	VCEO	Ic	Icac			ħFE		hfe	hie	hre	hoe	fr ∗fαe	NF	Cob	Coxrbb	TO.	NOTE
		MA	POL	25°C (mW)	(°C)	(V)	(V)	(mA)	(µA)	Vos(V)	min	тах.	lc(mA)		(Q)	(×10)	(µ8)	**fab (MHz)	(dB)	(pF)	(ps)	10.	
N3724A	Α	S	Ν	IW	200	50	30	1200	0.5	40	60	150	100									39	
N3725	Α	S	Ν	800	200	80	50	500	1.7	60	60	150	100									39	
N3725A	Α	S	Ν	IW	200	80	50	1200	0.5	60	60	150	100									39	
2T3725	Α	S	Ν	500	150	60		500															
N3734	Α	s	N	IW	200	50	30	1500			30	I-20	IA			·						39	
N3735	Α	S	N	iW	200	75	50	1500			20	80	IA									39	
N3771	AP	s	N	150W	200	50	40	30A	2mA	50	15	60	I5A									3	
N3772	AP	s	N	150W	200	100	60	20A	5mA	100	15	60	IOA									3	
N3789	AP	s	Р	150W	200	60	60	IOA			25	90	IΑ					4				3	
N3790	AP	S	Р	150W	200	80	80	IOA			25	90	ΙA					4				3	
N3791	AP	s	Р	150W	200	60	60	IOA			50	180	ΙA					4				3	
N3792	AP	S	Р	150W	200	80	80	IOA			50	180	ΪÀ					4				3	
N3798	Α	S	Р	360	200	60	60	50	10n	50	50	450	0.5	150	30K	25	60		3.5	4		18	
N3799	A	S	P	360	200	60	60	50	IOn	50	300	900	0.5	300	40K	25	60		2.5	4		18	
N3806	A	S	P	500		60	60	50	10n	50	150	450	0.5									⁴ ∕105	
N3807	A	S	P	500		60	60	50	10n	50	300	900	0.5					T				1/105	
N3808	A	S	P	500	-	60	60	50	10n	50	150	450	0.5								1	1/05	
N3809	A	S	P	500		60	60	50	10n	50	300	900	0.5			+-					†	1/105	
N3810	A	S	P	500		60	60	50	IOn	50	150	450	0.5			+-		1				1/105	
N3811	A	S	P	500		60	60	50	10n	50	300	900	0.5									₹/os	
N3829	AH	s	P	360	200	35	20	200	10.11	50	30	120	30			1		350				52	
N3838	A	s	P	250	200	60	40	600			100	300	150								+		
N3846	AP	S	N	150W	175	300	200	20A			10	60	10A			\vdash		10	· ·		_	63	
N3847	AP	S	N	150 W	175	400	300	20A		-	10	60	IOA			+		10			\vdash	63	
N3902	ĀP	S	N	100W	150	400	400	2.5A			30	90	IA			+		5	<u> </u>		_	63	
N3903	AH	S	N	625	150	60	40	200	_		50	150	10	50	8K	5	40	250		4	_	1/17	
A5T3903	AH	S	N	625	150	60	40	200		-	50	150	10	50	8K	5	40	250	_	4	+	1/17	
N3904	AH	S	N	625	150	60	40	200			100	300	10	100	IOK	8	40	300	1	4	_	1/17	
A5T3904	AH	S	N	625	150	60	40	200			100	300	10	, 100	IOK	8	40	300		4		1/7	
N3905	AH	S	P	625	150	40	40	200			50	150	10	50	8K	5	40	200		4	+	1/7	_
A5T3905	AH	S	P	625	150	40	40	200			50	150	10	-50	, 8K	5	40	200		4		1/7	_
2N3906	AH	S	Р	625	150	40	40	200			100	300	10	100	IOK	8	40	250		4	-	1/7	
45T3906	AH	S	P	625	150	40	40	200			100	300	10	100	IOK	8	40	250		4	-	1/7	
		S	P	360	200	60	60	200	10n	50	100	300	IOM	100	17K	10	40	230	3	6	+	18	
2N3962	A	S	P	360	200	80	80	200	10n	70	100	-	IOM	100	17K	10	40	-	3	6	+	18	
N3963	A	S	P	360	200	45	45	200	10n	40	250	500	IOM	250	20K	10	50		2	6	+	18	
2N3964	A	-		_	_	-	-	_	IOn	-	-	500	IOM	250	20K	10	50		2	6	-	18	-
N3965	A	S	Р	360	200	60	60 80	200	Turi	50	250 40	120	1A	250	201	10	30	40	-			111	
N3996	APH	S	N	30W	200	100		5A		<u> </u>	-					+	_	40			+	111	
N3997	APH	S	N	30W	200	100	80	5A		-	80 40	120	1A IA		-	+	-	40		-	+	111	
N3998 N3999	APH APH	S	N	30W	200	100	80 80	5A 5A	-		80	240	IA			+		40		\vdash	+	111	
							80	IA	-	L	30		500		-	+		40		1	+-	5	
N4000	APH	_	N	15W	200	100	100	IA	-	-	40	-	_		-	+	-	40		1	+	5	
N4001	APH	_	N	15W	200	120	-	_	_		20	-	-		-	+	\vdash	40		1	+	63	<u> </u>
N4002	APH		N	100W	200	100	80	30A	-		-	80	15A		-	1	\vdash		-	-	-	63	<u> </u>
N4003	APH	-	N	100W	200	120	100	30A	_	-	20	80	15A		-	-	_	+	-	 	+	5/45	
N4004	APH	_	N	40W	200	100	80	20A	_	<u> </u>	30	_	10A		-	+	-	-		+-			-
N4005	APH		N	40W	200	120	100	20A			30				-	+	-	+-		\vdash	+	5/45 18	
N4013	A	S	N	360		60	40	500	1.7	40	60		100		-	-	-	├ ─	-	+	+-	18	-
N4014	Α	S	N	360		80	50	500	1.7	60	60	-	100		-	-	-	-	-	_	+-	18	
N4026	A	S	L	500	200	60	60		50n	50	40	-	100			_		₩	-	-	+		
A5T4026	Α	S	Р	625	150	60	60	1	50n	50	40	-	-		_	-	<u> </u>	-	-	-	+	1/17	-
48T4026	Α	S	Р	625	150	60	60	1	50n	50	40	-	100		- 7:	-	-	₩		-	+	1/17	
2N4027	A	S	Р	500	200	80	80	1	50n	60	40	_	100	<u> </u>		1	_		<u> </u>	1		18	-
45T4027	Α	S	Ρ	625	150	80	80	1	50n	60	40		100		<u></u>		_	<u> </u>		_	1	1/17	
A8T4027	A	S	Р	625	150	80	80	T	50n	60	40	120	100	L		L	<u>L</u> _	L				1/17	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N3724A	2SC485								
2N3725	2SC485							1	
2N3725A	2SC485								
Q2T3725	2SC485				2SC456	2SC1247			
2N3734	2SC485	-			2SC696A			2SC614	
2N3735	2SC485				2SC696A			2SC614	
2N3771	2SD114					2SD250			
2N3772	2SD113								
2N3789	2SA680						-		
2N3790	2SA679							_	
2N3791	2SA680								
2N3792	2SA679	-							
2N3798		1			2SA731				
2N3799					2SA731				
2N3806					2SA731			T	
2N3807	×				2SA731				
2N3808					2SA731				
2N3809					2SA731				
2N3810					2SA731				
2N3811					2SA731				
2N3829	2SA594G								
2N3838	2SA682								
2N3846	2SC1434								
2N3847	2SC1434								
2N3902		2SCI 106							
2N3903	2SC498	2SC729							
A5T3903	2SC498	2SC729				_			
2N3904	2SC498	2SC729					v		
A5T3904	2SC498	2SC729							
2N3905	2SA503	200			2SA546			2SA532	
A5T3705	2SA503				2SA546			2SA532	
2N3906	2SA503				2SA546			2SA532	
A5T3906	2SA503				2SA546			2SA532	
2N3962	2SA503	2SC729 -							
2N3963	2SA503	2SC729							
2N3964	2SA503	· 2SC729							
2N3965	2SA503	2SC729							
2N3996	2SC981	200.20	2SC105					_	
2N3997	2SC981		2SC105						
2N3998	2SC981		2SC105						1
2N3999	2SC981		2SC105			8			1
2N4000		2SC1161	2SC1409						——
2N4001	-	2SC1161	2SC1409						†
2N4002	2SC1435	2001101				2SC1301			
2N4003	2SC1435					2SC1301			
2N4004	2SC1435					2SC1301			
2N4005	2SC1435					2SC1301			
2N4003	230,400				2SC456	2SC1247			
2N4014	2SC497				200400	200,277			
2N4014 2N4026	2SA485				2SA546 A				
A5T4026	2SA485				2SA546 A				
A8T4026	2SA485 2SA485				2SA546 A				l
2N4027	2SA485			-	2SA546 A				
A5T4027	2SA485 2SA485	-			2SA546 A 2SA546 A	-			-
					2SA546 A 2SA546 A				-
A8T4027	2SA485				23A346 A				

		,L	>	MA	XIMU	n R	ATINGS	6					EL	ECTRICA	L CHAR	ACTER	STICS					OUTLINE	
TYPE	USE	MATERIA	POLALITY	Pc 25°C	Tj	Vœ	Vera	Ic	los	0		hre		hfe	hie	hre	hoe	*fae	NF (10)	Cob	Coxrbb'	TO.	NOTE
		È	2	(mW)	(°C)	(V)	(V)	(mA)	(μA)	Vos(V)	min.	max.	ic(mA)		(Q)	(×10)	(µQ)	**fab (MHz)	(dB)	(pF)	(ps)		
N4028	Α	S	Р	500	200	60	60	IΑ	50n	50	100	300	100									18	
A5T4028	Α	S	Р	625	150	60	60	IA	50n	50	100	300	100									1/17	
48T4028	Α	S	Р	625	150	60	60	IA	50n	50	100	300	100									1/17	
2N4029	Α	S	Р	500	200	80	80	IΑ	50n	60	100	300	100				1					18	
A5T4029	A	S	Р	625	150	80	80	1A	50n	60	100	300	100									1/7	
A8T4029	Α	S	Р	625	150	80	80	1A	50 n	60	100	300	100									1/17	
2N4030	Α	S	Р	800	200	60	60	ΙA	50n	50	40	120	100									39	
2N4031	A	S	Р	800	200	80	80	IA	50 n	60	40	120	100									39	
2N4032	Α	S	Р	800	200	60	60	IA	50n	50	100	300	100									39	
2N4033	Α	S	Р	800	200	80	80	IΑ	50 n	60	100	300	100									39	
N4058	A	S	Р	625	150	30	30	30	100n	20	100	400	0.1						1.7			4/17	
A5T4058	А	5	Р	625	150	30	30	30	100n	20	100	400	0.1						1.7			1/7	
A8T4058	A	S	P	625	150	30	30	30	100n	20	100	400	0.1	_			_					1/17	
N4059	A	S	P	625	150	30	30	30	100n	20	45	660	1		-	_				-		4/17	
A5T4059	A	S	P	625	150	30	30	30	100n	20	45	660	1			\vdash						4/17	
48T4059	A	S	P	625	150	30	30	30	100n	20	45	660				\vdash						1/17	
2N4060	A	S	P	625	150	30	30	30	100n	20	45	165	1		_	1	-				1	1/17	
	A	S	Р	625	150	30	30	30	100n	20	45	165	1	-		-					1	1/17	
A5T4060	_	_	P	625			_	30	100n	20	45	165	<u> </u>		-							1/7	
A8T4060	A	S	P		150	30	30	30	100n	20	90	330	1		-	-	_			-	-	1/7	
2N4061	A	S	ļ.	625	150	30	30			-	90	330			-	+				-	-	17 4/7	
A5T4061	Α	S	Р	625	150	30	30	30	100n	20	90	-	-		-					-	-	4/17	
48T4061	Α	S	P	625	150	30	30	30	100n	20	-	330	_		-	-	-		_	-		1/17	
2N4062	Α	S	Р	625	150	30	30	30	100n	20	180	660	1			-	-			_	-		
45T4062	Α	S	Р	625	150	30	30	30	100n	20	180	660	1		-	-					-	1/17	
48T4062	A	S,	Р	625	150	30	30	30	100n	20	180	660	1			-					-	1/17	
2N4104	Α	S	Ν	300	200	60	60	50	10n	45	400	800	10M	500	42K	8	60	050		4.5	-	18	-
2N4123	AH	S	Ν	625	150	40	30	200	50n	20	50	-	2		-	-		250			-	1/17	_
A5T4123	АН	S	Ν	625	150	_40	30	200	50n	20	50	150	2			_		250			-	1/17	
2N4124	AH	S	Ν	625	150	40	30	200	50n	20	120	360	2			-		300			-	1/17	_
A5T4124	АН	S	Ν	625	150	30	25	200	50n	20	120	360	2			_		300				1/7	
2N4 I 25	AH	S	P	625	150	30	30	200	50n	20	150	150	2			1		200			_	1/17	
A5T4125	AH	S	P	625	150	30	30	200	50n	20	120	_	2			_		250				1/1	
2N4126	AH	S	P	625	150	25	25	200	50n	20	120	360	2			-		250			1_	1/17	
A5T4126	АН	S	P	625	150	25	25	200	50n	20	120	360	2					250				1/17	
2N4138	A	S	N	300		30	30	100	10n	25	30		10M			1					100	46	
A5T4248	Α	S	Р	625	150	40	40	100	I0n	40	50		0.1	50								1/17	
A5T4249	Α	S	Р	625	150	60	60	100	10n	40	100	300	0.1	100	17K	10	40		3			1/7	
A5T4250	A	S	P	625	150	40	40	100	10n	40	250	750	0.1	250	20K	10	50		2			1/2	
2N4252	АН	S	N	200		30	18	50	50n	15	50		2									72	
2N4253	АН	S	N	200		30	18	50	50 n	15	30	150	2									72	
2N4260	АН	S	Р	200	200	15	15	30			30	150	10					1.2GHZ				72	
A5T4260	АН	S	P	500	150	15	15	30			30	150	10					1.2GHZ				1/17	
2N4261	АН	S	P	200	200	15	15	30			30	150	10					I.5GHZ				72	
A5T4261	AH	S	P	500	150	15	15	30		1	30	150	10			-						1/17	
2N4300	ÁPH	S	N	15W	200	100	80	2A			30	120	IA					30				5	
2N4301	APH	S	N	50W	200	100	80	10A			30	_	5A					40				61	
2N4398	APH	-	Р	200W	200	40	40	30A			15	60			1			4				3	
2N4399	APH	S	P	200W	200	60	60	30A		1	15	60	15A			1		4				3	
2N4402	AH	S	P	625	150	40	40	600		1	50	150	150	30	7.5K	8	100				1	1/1	
A5T4402	AH	S	P	625	150	40	40	600			50	150	150	30	7.5K	_	100					1/17	
2N4403	AH	S	P	625	150	40	40	600	-		100	+	150	60	15K	8	100			t —	_	1/17	
A5T4403	AH	S	P	625	150	40	40	600	-	-	100	_	150	60	15K	8	100			-		1/7	
2N4409	₩	S	N	625	150	80	50	250	IOn	60	60	400	100	-	1.51	1	.00	-	_		+	1/17	
	A		1		-	80	_	250		60	60	400	100	-	-		-	-		\vdash	+	4/7	
A5T4409	A	S	N	625	150		50		10n	1	-	-		-	-	-	-	-	-	-	+	4/7	
2N4410	A	S	N	625	150	120	80	250	10n	100	60	400	100				L				\bot	717	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N4028	2SA681	2SA717	2SA537A		2SA546				
A5T4028	2SA681	2SA 717	2SA537A		2SA546			-	
A8T4028	2SA681	2SA 717	2SA537A		2SA546				
N4029	2SA681	2SA 708	2SA537A		2SA546				
A5T4029	2SA681	2SA 708	2SA53 7A		2SA546				
A8T4029	2SA681	2SA 708	2SA537A		2SA546				
2N4030	2SA681	2SA717	2SA537A		2SA546		_		
2N4031	2SA681	2SA 708	2SA537A		2SA546				
2N4032	2SA681	2SA717	2SA537A		2SA546				
2N4033	2SA681	2SA 708	2SA537A		2SA546				
2N4058	2SA509	2SA643		2SA9696					
A5T4058	2SA509	2SA643		2SA9696					
48T4058	2SA509	2SA643		2SA9696					
N4059	2SA509	2SA643		·2SA9696	-				
A5T4059	23A303	2SA643		2SA9696			_		
48T4059	2SA509	2SA643		2SA9696				-	
	2SA509 2SA509	2SA643		2SA9696					
2N4060	2SA509 2SA509	2SA643 2SA643		2SA9696	 				
A5T4060							 		_
A8T4060	2SA509	2SA643		2SA9696					+
2N4061	2SA509	2SA643		2SA9696					+
A5T4061	2SA509	2SA643		2SA9696					 -
48T4061	.2SA509	2SA643		2SA9696					-
2N4062	2SA509	2SA643		2SA9696					-
45T4062	2SA509	2SA643		2SA9696					
A8T4062		2SA643		2SA9696					
2N4104	2SC559	2SC945				2SC 725			
2N4123	2SC998	2SC578		2SC730	2SC456	2SC 202		2SC423	_
A5T4123	2SC998	2SC578		2SC730	2SC456	2SC 202		2SC423	
2N4124	2SC998	2SC578		2SC730	2SC456	2SC 202		2SC423	
A5T4124	2SC509	2SC578		2SC730	2SC456	2SC202		2SC423	
2N4125	2SA661	2SA 643			2SA546	2SA558		2SA532	
A5T4125	2SA661	2SA643							
2N4126	2SA661	2SA 643			2SA546	2SA558		2SA532	
A5T4126	2SA661	2SA 643			2SA546	2SA558		2SA532	
2N4138		2SC945	2SC1204	2SC422			_		
A5T4248	2SA661		_						
A5T4249	2SA661								
A5T4250	2SA661								
2N4252	20001		2SC460	2SC710		2SC 964	2SC1128		
2N4252 2N4253		-	2SC460	2SC710		2SC 964	2SC1128		
2N4253 2N4260	2SA561		2SA530	200110		2SA558		2SC532	
A5T4260	2SA561	-	20,1000			2SA558		2SC532	
2N4261	2SA561 2SA561	-	2SA530	1		2SA558		2SC532	
	2SA561		204030			2SA558	-	2SC532	
A5T4261 2N4300	23A301	2001160	-		2SC697	207.000	2SC756		1
	2001070	2SC1160			230031		200730		1
2N4301	2SC1079				+				1
2N4398				-			_		+
2N4399	004-77	004000	200710			20 4 500	,		+
2N4402	2SA504	2SA606	2SA742	-		2SA580	-		+
A5T4 <u>402</u>	2SA504	2SA606	2SA742	<u> </u>		2SA580			-
2N4403	2SA504	2SA606	2SA742			2SA580			-
A5T4403	2SA504	2SA606	2SA742			2SA580			-
2N4409	2SC1166	2SC853			1	2SC <u>826</u>			-
A5T4409	2SC1166	2SC853				2SC826			
2N4410			,	2SC310		2SC826	1		1

		7	_	M/	AXIMU	M R	ATING:	S _					EL	ECTRICA	L CHAR	ACTER	STICS						
TYPE	USE	MATERIAL	POLAUTY	Pc 25°C	Tj	Vos	VCEO	le	las	10		hre		hfe	hie	hre	hoe	fr *fae	NF	Cob	Coxrbb	OUTLINE	NOTE
			ē	25°C (mW)	(°C)	(V)	(γ)	(mA)	(μ A)	Vos(V)	min	max	lc(mA)		(Ω)	(xī i)	(_U T)	**fab (MHz)	(dB)	(pF)	(ps)	то.	
A5T4410	Α		N	625	150	120	80	250	1 0 n	100	60	400										1/17	
N4423	АН	S	Р	360	150	12	12	200	1	6	40	150										. 1/17	
N4854	SW	S	N P	300	200	60	40	600	10n	50-		300									-	1/105	
2N4855	SW	S	N P	300	200	60	40	600	10n	50		120										Yos	
N4901	AP	S		87.5W		40	40	5A			20		IΑ					4				3	
2N4902	AP	S		87.5W		60	60	5A			20	80						4				3	
N4903	AP			87.5W		80	80	5A			20		IA					4				3	
2N4904	AP					40	40	5A			25		2.5A					4				3	
N4905	AP		_	87.5W	_	60	60	5A			25	_	2.5A					4				3	
N4906	AP		_	87.5W		80	80	5A			25		2.5A					4				3	
N4913	AP			87.5W		40		5A			25	_	2.5A					4				3	
N4914	AP			87.5W		60	60	5A			25		2.5A					4				3	
N4915 .	AP	S			_	80	80	5A			25	100	2.5A					4				3	
N4996	АН	S	N	250	150	30	18	50	100n	15	50		2			1						1/17	
2N4997	AH	S	N	250	150	30	18	50	100n	15		150							<u> </u>	ļ	_	1/17	
2N4998	APH		N	35W	200	100	80	2A			30		IA					<u> </u>			_	59	
N4999	APH		Р	35W	200	100	80	2A			30		IA								1	59	
2N5000	APH		N	35W	200	100	80	2A			_	200	_									59	
2N5001	APH	_	Р	35W	200	100	80	2A			_	200	_						<u></u>			59	
2N5002	APH	_	N	57W	200	100	80	5A			30		2.5A									59	
2N5003	APH		Р	57W	200	100	80	5A			30		2.5A									59	
2N5004	APH		N	57W	200	100	80	5A			70		2.5A									59	
2N5005	APH	S	Р	57W	200	100	80	5A			70	200	2.5A									59	
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TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
A5T4410		2SC1217							
2N4423				2SA696	2SA719			-	
2N4854				-					
2N4855									
2N490 I	2SA680								
2N4902	2SA680								
2N4903	2SA680								
2N4904	2SA680								-
2N4905	2SA680 2SA680								
2N4906 2N4913	2SA680 2SC1080		2SC1343					_	+
2N4913 2N4914	2SC1080 2SC1080		2SC1343 2SC1343						
2N4915	2SC1080		2SC1343				 		+
2N4996	2SC383		2SC684	1			2SC1128		
2N4997	2SC383		2SC684				2SC1128		
2N4998	2SC558		200001	2SC766	2SC901		2001120		+
2N4999		2SA648				-			
2N5000	2SC558			2SC766	2SC901				
2N5001		2SA648							
2N5002	2SC558				2SC901				
2N5003	`	2SA648				-			
2N5004	2SC558				2SC901				
2N5005		2SA648							
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		7		M	XIMU	M R	ATINGS	S					E	ECTRIC/	AL CHAR	RACTER	ISTICS						
TYPE	USE	MATERIAL	POLALITY	Pc 25*C (mW)	Tj (*C)	V08 (V)	VCE0 (V)	Ic (mA)	Ια (μ A)	0 Vca(V)	min	hre max.	lc(mA)	hfe	hie (Ω)	hre (×10)	hoe (µ)	f t *fae **fab (MHz)	NF (dB)	Cob (pF)	Coxrbb (ps)	TO.	NOTE
2N5038	APH	S	N	140W	200	150	90	20A			20	100	12					60				3	
2N5039	APH	S	Ν	140W	200	120	75	20A			20	100	10					60				3	
2N5058	A	S	N	IW	200	300	300	150	50n	100	30	150	30									39	
A5T5058	Α	S	N	800	150	300	300	150	50n	100	30	150	30									1/17	
2N5059	Α	s	N	IW	200	250	250	150	50n	100	30	150	30									39	
A5T5059	Α	S	Ν	800	150	250	250	150	50n	100	30	150	30									1/17	
2N5067	AP	S	N	87.5W	200	40	40	5A			20	80	IA					4				3	
2N5068	AP	S	Ν	87.5W	200	60	60	5A			20	80	IA	-				4				3	
2N5069	AP	S	Ν	87.5W	200	80	80	5A			20	80	IA					4				3	
2N5086	Α	s	Р	625	150	50	50	50	50n	35	150	500	0.1					40	3			1/7	
A5T5086	Α	s	Р	625	150	50	50	50	50n	35	150	500	0.1					40	3			1/7	
2N5087	Α	s	Р	625	150	50	50	50	50n	35	250	800	0.1					40	2			1/2	
A5T5087	Α	S	Р	625	150	50	_	50	50n	35	250	800	0.1		1			40	2	-		1/17	
2N5147	APH	S	Р	7W	200	100	_	2A			70	200	IA.									39	
2N5148	APH	S	N	7W	200	100		2A		-	30	90	1A									39	
2N5149	APH	S	Р	7W	200	100	80	_			70	200	IA			\vdash						39 .	
2N5150	APH	S	N	7W	200	100		2A	_	-	30	90	1A	-								39	
2N5157	APH	S	N	100W	150		-	3.5A			30	90	1A					5				3	
A5T5172	Α	S	N	625	150	25	25	100	100n	25	100	500	10					_				1/17	
A7T5172	Α	S	N	625	150	25	25	100	100n	25	100	500			 							1/7	
A8T5172	A	s	N	625	150	25	25	100	100n	25	100	500									_	1/7	
2N5209	Ā	s	N	625	150	50	50	50	50n	35	100	300							3			1/1	
A5T5209	A	S	N	625	150	50	50	50	50n	35	100	300							3			1/17	
2N5210	A	S	N	625	150	50	50	50	50n	35	200	600			-				2			X	_
A5T5210	A	S	N	625	150	50	50	50	50n	35	200		0.1						2			1/17	
2N5219	AH	S	N	625	150	20	15	100.	100n	10	35	500	2					150				1/2	
A5T5219	AH	S	N	625	150	20	15	100	100n	10		500				-		150				1/17	
2N5220	AH	s	N	625	150	15		500	100n	10	30	600			_			100				1/7	
A5T5220	АН	s	N	625	150	15	_	500	100n	10	-	_	50 -					100	_ `		-	1/17	
2N5221	АН	s	P	625	150	15	_	500	100n	10			50	-				100				1/7	
A5T5221	AH	s	P	625	150	15		500	100n	10	4-		Acres de		_	-		100				1/17	
2N5222	AH	s	N	625	150	20	15	50	100n	10	20	_	_				_	450				1/17	
A6T5222	AH	s	N	625	150	20	15	50	100n	10	_							450			_	1/17	
2N5223	AH	s	P	625	150	25	_	100	100n	10			_					150				1/17	
A5T5223	AH	S	P	625	150	25		_	100n	10								150			-	1/1	
2N5225	AH	S	N	625	150	25	_	500	300n	15	30	600	_	_		-		50				1/1	
A5T5225	AH	s	N	625	150	25		500	300n	15	_						-	50				1/17	
2N5226	AH	S	Р	625	150	25	_	500	300n	15	30		-		-	+		50				1/1	
A5T5226	AH	S	P	625	150	25		500	300n	15	30	600						-50				1/17	
2N5227	AH	S	P.	625	150	30	30	50	100n	10	50	700	-					100				1/17	
A5T5227	AH	S	P	625	150	30	30	50	100n	10			_					100			-	1/1	
2N5241	APH	S	N	125W	150	- 50	_	5A			15	35	_			_		5			1	3	
2N5301	APH	S	N	200W	200	40	_	30A	ImA	40	15	60	15A				1	2			1	3	
2N5301	APH	S	N	200W	200	60		30A	ImA	60	15	60	15A			-	-	2			-	3	~~
2N5302 2N5303	APH	S	N	200W	200	80		20A	ImA	80	15	60	IOA				-	2				3	
2N5303 2N5332	APH	S	P	360	200	20		100	10n	15	20	80	10			_					<u> </u>	46	
2N5332 2N5333	APH	S	P	15W	200	100	80	_	1011	13	30	120	IA			-	_	30				5	
2N5333 2N5384	APH	S	P	30W	200	100	80		-		20	80	2A					30				111	
2N5384 2N5385	APH	S	P	30W	200	100	80			-	20	80	2A 2A			-		30	_		-	111	
2N5385 2N5386	APH	S	P	50W	200	100		12A			20	80	6A		-		<u> </u>	30			-	61	-
	\rightarrow	_			_		_	_	ļ			100			-	-		15			-	61	
2N5387	AP	S	N	100W	200	200		7.5A			25	_	_								-		
2N5388	AP	S	N	100W	200	250	_	7.5A		-	25	100	2A		<u> </u>			15		-	-	61	
2N5389	AP	S	N	100W	200	300		7.5A			25	100	2A		-			15		-	-	61	DADLING
2N5390	AP	S	N	15W	200	120	_	2A		L	2K	20K									-	33	DARLING
2N5399	AH	S	N	360	200	25	15	100	10n	15	30	90	10									46	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N5038	2SC1435					2SC1301	•		
2N5039	2SC1435					2SC1301			
2N5058	2SC996								
A5T5058	2SC995	2SC1103A				_			
2N5059	2SC996								
A5T5059	2SC995	2SC1103A							
2N5067	2SC1080		2SC1343						
2N5068	2SC1080		2SC1343						<u> </u>
2N5069	2SC1080		2SC1343						
2N5086	2SA682								
A5T5086	2SA682								
2N5087	2SA682			<u> </u>					
A5T5087	2SA682								+
2N5147	2SA740		2SC610	<u> </u>	200.007				+
2N5148	204740		200010	1	2SC 697				+
2N5149 2N5150	2SA740		2SC610		2SC697				+
2N5150 2N5157	2501434		230010		250697	2SC1228	2SC1348		+
A5T5172	2SC501					2SC971	2301340		+
A515172	2SC501					2SC971			+
A715172 A8T5172						2SC971			+
2N5209	2SC501 2SC501					2SC971			
A5T5209	2SC501					2SC971			
2N5210	2SC501	*				2SC971			1
A5T5210	2SC501					2SC971			+
2N5219	2SC501					2SC971			+
A5T5219	230301					2SC971			+
2N5220	2SC509			2SC+209		2SC971	, ,	*	
A5T5220	2SC509			2SC1209		2SC971			
2N5221	230303	2SA643		2SA695					†
A5T5221		2SA643	_	2SA695		-			
2N5222	2SC501	20.10				2SC971			
A6T5222	2SC501	-				2SC971			
2N5223									
A5T5223	-	2SA643		1.					
2N5225	2SC509			2SC1209		2SC971		-	
A5T 5225	2SC509			2SC1209		2SC971			
2N5226		2SA643	2SA537		2SA546				
A5T5226		2SA643	2SA537		2SA546				
2N5227		2SA643							
A5T5227		2SA643							
2N5241	2SC1434					2SC1228			
2N5301	2SC1435					2SC1401			
2N5302	2SC1435	-				2SC1401			
2N5303	2SC1435					2SC1401			
2N5332			2SA741			2SA524			<u> </u>
2N5333		2SA627		<u> </u>				_	1
2N5384		2SA627	0)						
2N5385		2SA627			·				
2N5386	2SA679								
2N5387	2SC 434								1
2N5388	2SC1434								
2N5389	2SC1434			ļ , , , , , , , , , , , , , , , , , , ,	-				
2N5390	2SD107								
2N5399			2SA741			2SA524			

	ľ	뒫	≥		AXIMU	IM F	RATING	s					EL	ECTR1C#	AL CHAR	ACTER	STICS						
TYPE	USE	MATERIAL	POLALIT	Pc 25°C	Tj (°C)	V08 (V)	VCE0 (V)	Ic (mA)	la:		ļ.,	hre		hfe	hie (Q)	hre (×10)	hoe (μδ)	f t *fae **fab (MHz)	NF (dB)	Cob (pF)	Coxrbb (ps)	OUTLINE TO.	NOTE
2N5400	Α	S	P	(mW)	150		120	600	(μ A)	Vos(V)	min.		tc(mA)		(2)	(>10 /	(40)			(pr)	(да)	4/	
A5T5400	A	S	P	625	150		120	600	100n	100	40	180	10		-	-		100	8			1/17 1/17	
2N5401	A	s	P	625	150	160	-	600	50n	120		240	10					100	8			1/7	
A5T5401	A	s	P	625	150	_		600	50n	120	-	240						100	-8			1/7	
2N5447	A	s	P	625	150	40	25	200	100n	20	60	_	50					100				1/7	
2N5448	Α	s	P	625	150		30	200	100n	20		150	50					100				1/7	
2N5449	Α	S	N	625	150	50	30	800	100n	20		_	50			-		100		-		1/7	
2N5450	Α	S	N	625	150	50	30	800	100n	20	50	150	50					100				1/17	
2N5451	Α	s	Ň	625	150	40	~20	800	100n	20	30	600	50					100				1/17	
2N5525	Α	S	N	500	150	40	30	200	100n	5				5K								1/17	DARLINGTO
2N5526	Α	S	N	500	150	40	30	200	100n	5				IK								1/17	DARLINGTO
2N5550	Α	S	N	625	150	160	_	600	100n	100		250	10						10			1/1	
A5T5550	Α	S	N	625	150	160	140	600	100n	100	-2	250	10						10			1/17	
2N5551	Α	S	N	625	150	180	160	600	50n	120		250	10						8			1/17	
A5T5551	Α	S	N	625	150	180	160	600	50n	120		250	10						8			1/17	
2N5571	APH	S	N	140W	200	120	90	30A			20	100						50				3	
2N5572	APH	S	N	140W	200	150	120	30A			20	100	15A					50				3	
2N5683	APH	S	P	300W	200	60	60	50A	2mA	60	15	60	25A					2				3	
2N5684 2N5685	APH	S	Р	300W	200	80	80	50A	2mA	80	15	60	25A			-		2				3	
2N5686	APH	S	N	300W	200	60 80	60 80	50A	2mA	60 80	15 15	60	25A				_	2				3	
2N5758	APH	S	N	150W	200	100	100	6A	ImA	100		100	25A 3A					2				3	<u> </u>
2N5759	APH	S	N	150W	200	120	120	6A	ImA	120	20		3A									3	<u> </u>
2N5760	APH	S	N	150W	200	140	140	6A	ImA	140	15		3A									3	
2N5867	APH	S	_	87.5W	200	60	60	5A	100	60	20	100	1.5A					4				3	
2N5868	APH	s		87.5W		80	80	5A .	100	80	20	100	1.5A					4				3	
2N5869	APH	S	_	87.5W		60	60	5A	100	60	20	100	1.5A					4				3	
2N5870	APH	S	N	87.5W	200	80	80	5A	100	80	20	100	1.5A					4				3	
2N5871	APH	S	Р	115W	200	60	60	7A	250	60	20	100	2.5A				_	4	٠.			3	
2N5872	APH	S	Р	115W	200	80	80	7A	250	80	20		2.5A					4				3	
2N5873	APH	S	Ν	115W	200	60	60	7A	250	60	20	100	2.5A					4				3	
2N5874	APH	S	N	115W	200	80	80	7A	250	80	20	100	2.5A					4				3	
2N5875	APH	S	P	150W	200	60	60	IOA	500	60	20	100	4A					4				3	
2N5876	APH	S	Р	150W	200	80	80	10A	500	80	20	100	4A					4				3	
2N5877	APH	S	N	150W	200	60	60	10A	500	60	20	100	4A					4				3	
2N5878	-	S	N	150W	200	80	80	IOA	500	80	20	_	4A					4				3	
2N5879	-	S	Р	160W	200	60	60	15A	500	60	20		6A					4				3	
2N5880	APH	S	Р	160W	200	80	80	I5A	500	80	20		6A			Ш		4				3	
2N5881		S	N	160W	200	60	60	15A	500	60		~	6A					. 4				3	
2N5882 2N5883	-	S	N P	160W	200	80	80	15A	500	80	_		6A					4		_		3	
2N5883 2N5884	-	S S	P	200W	200	60 80	60 80	25A 25A	1000	60 80	20	100	10A 10A					4				3	
2N5885	-	S	N	200W	200	60	60	25A	1000	60	20	100	IOA					4				3	
2N5886	\rightarrow	S	N	200W	200	80	80	25A	1000	80	20	-	IOA	-				4			_	3	
2N5938		s	N	20W	200	60	50	3A	1000	,o	30	150	IA					150			\neg	3	
2N5939	\rightarrow	s	N	40W	200	80	80	IOA	-	\dashv		_	5A					120	-			111	
2N5940	_	s	N	40W	200	70	70	10A			\rightarrow		5A					120	-		_	111	
2N6127		-	Р	100W	200	100	80	10A			30		5A	-+				40	-+		\dashv	61	
2N6128		\rightarrow	N	100W	200	100	80	IOA			30	_	5A					40			\dashv	61	
	\rightarrow	\rightarrow	N	150W	200	100	80	30A			20	100	15A					70			\dashv	3	
2N6271	\rightarrow	_	N	150W	200	120	100	30A		\neg	20	100	15A			_		70			_	3	
2N6272	APH	S	N	150W	200	100	80	30A			20	100	15A					70				63	
2N6273	APH	s	N	150W	200	120	100	30A			20	100	I5A					70				63	
2N6322	AP	s	N	200W	200	300	200	30A			40	150	5A									3	
2N6323	AP	S	N	200W	200	400	300	30A		\neg	30	150	5A									3	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N5400		2SA712							
A5T5400		2SA712			-				
2N5401	-	2SA712							
A5T5401		2SA712							
2N5447			2SA537		2SA546				
2N5448			2SA537		2SA546				
2N5449		2SC959	2SC708						
2N5450		2SC959	2SC708				-		
2N5451		2SC959	- 2SC708						
2N5525									
2N5526		0							
2N5550									
A5T5550									
2N5551									
A5T5551									
2N5671	2SC1435					2SC1401			
2N5672	2SC1435					2SC1401			1
2N5683									
2N5684									
2N5685		 							
2N5686									
2N5758	2SC 1434	1	2SC1343					-	
2N5759	2SC 1434	 	2SC1343						
2N5760	2SC 1434								
2N5867	2SA680								
2N5868	2SA680								
2N5869	2SC1080		-		-				
2N5870	2SC1080								-
2N5871	2SA680						,		
2N5872	2SA680								
2N5873	2SC1080		2SC1343						
2N5874	2SC1080		2SC1343						
2N5875								~~~~	
2N5876		· · · · · · · · · · · · · · · · · · ·							
2N5877	2SC1434					2SC1401			
2N5878	2SC1434					2SC1401			
2N5879									
2N5880				_					
2N5881	2SC1435					2SC1401	-		
2N5882	2SC1435					2SC1401			
2N5883					<u> </u>			-	
2N5884									
2N5885	2SC1435					2SC1401			_
2N5886	2SC1435				-	2SC1401			
2N5938		2SC1307							
2N5939	2SC1080		2SC1343						
2N5940	29C1080		2SC1343		•				
2N6127	2SA679								
2N6128	2SC1080		2SC1343						
2N6270	2SC1435					2SC1299			
2N6271	2SC1435					2SC1299			
2N6272	2SC1435					2SC1299			_
2N6273	2SC1435				-	2SC1299			_
2N6322	2SC1435				-	2SC1299			_
2N6323	2SC1435					2SC1299			

		IAL	Ě	Pc Mi	AXIMUI		ATINGS		-				EL	ECTRICA				fr			_	OUTLINE	
TYPE	USE	MATER	POLALITY	25°C	Tj (°C)	Vos	VCEO	1c .	l car			hee		hfe	hie (Q)	hre (×10)	hoe	*!ae **!ab	NF (dB)	Cob (pF)	Coxrbb'	то.	NOT
			_	(mW)	(°C)	(V)	(V)	(mA)	(µA)	Vcs(V)	min.		lc(mA)		(2)	(>10)	(µ0)	(MHz)	(00)	. (pr)	(105)		
2N6324	AP	S	N	200W		300	200	30A			40	150	5A									63	
2N6325	AP	S	N	200W	200	400	300	30A			30	150	5A									63	
2N6326	APH	S	N	200W	200	60	60	30A			6	30	30 A									3	
2N6327	APH	S	N	200W	200	80	80	30A			6	30	30A		<u> </u>							3	
2N6328	APH	S	N	200W	200	100	100	30A			6	30	30A									3	
2N6329	APH	S	Р	200W	200	60	60	30A			6	30	30A									3	
2N6330	APH	S	Р	200W	200	80	80	30A			6	30	30A									3	
2N6331	APH	S	Р	200W	200	100	100	30A			6	30	30A									3	
2N646 I	Α	S	N	١W	200	300		100	50n	200	30	120	20									39	
2N6462	Α	S	N	IW	200	300		100	50n	200	100	300	20								-	39	
2N6463	Α	S	N	١W	200	250		100	50n	150	30	120	20									39	
2N6464	A	S	N	IW	200	250		100	50n	150	100	300	20									39	
TIS37	АН	S	Р	625	150	35	32	50	100n	10	45		1			_		80	2.5			1/17	
TIS38	АН	S	Р	625	150	35	32	50	100n	10	25		1					50		L	_	1/17	
TIS62A	АН	S	N	500	150	30	12	30	100n	10		225	4					500	6			1/17	
TIS63A	АН	S	N	500	150	30	12	30	100n	10		225	4					500		L		1/17	
TIS64A	АН	S	N	500	150	30	12	30	100n	10	50	150	4			L		500		<u> </u>	_	1/17	
TIS84	АН	S	N	500	150	40	30	50	50n	10	30		4						2.8		_	1/17	
TIS86	АН	S	N	400	150	30	30	50	100n	15	-	200	4						2.5			1/17	
TIS87	АН	S	N	400	150	45	45	50	100n	15	30	150	12									1/17	
TIS90	Α	S	N	625	150	40	40	400	100n	20	160		50									1/17	
TIS90M	Α	S	N	625	150	40	40	400	100n	20	160		50									1/17	
TIS91	Α	S	P	625	150	40	40	400	100n	20	160		50								_	1/17	
TIS91M	Α	S	P	625	150	40	40	400	100n	20	160		50								\perp	1/1	
TIS92	Α	S	N	625	150	40	40	400	100n	20	160		50								-	1/17	
TIS92M	Α	S	N	625	150	40	40	4Q0	100n	20	160		50			ļ.,			-		0	1/17	
TIS93	Α	S	P	625	150	40	40	400	100n	20	160		50									1/17	
TIS93M	Α	S	Р	625	150	40	40	400	100n	20	160		50	L_							_	1/17	
TIS94	JΑ	S	N	625	150	60	40	200	10n	40	340		0.1	_					3		_	1/17	
TIS95	Α	S	N	625	150	80	60	200	1 0 n	40	200		1			_			3	<u> </u>		1/17	
TIS96	Α	S	N	625	150	80	65	200	10n	40	110		100		_				3	-	_	1/17	
TIS97	Α	S	-		150	60	40	200	10n	40	340		0.1			-			3			1/17	
TIS98	Α	S	N	625	150	80	60	200	10n	40	200		1						3	-	-	3/17	
TIS99	А	S	N	625	150	80	65	200	10n	40	110		100		ļ				3	<u> </u>		1/2	
TISI00	Α	S	N	625	150	180	180	100	50n	75	20	_	1		-					-	-	1/17	
TISIOI	Α	S	-	625	150	150	150	100	50n	75	20		1			-				-	-	1/2	
TISI05	АН	S	-	625	150	45	45	50	50n	30	30	150	10		-					-		1/17	
TISI08	АН	S		500	150	40	30	50	50n	10	25	_	4				-		3	-	-	1/7 A/7	
TIS109	SW	-	-	625	150	60	30	800	100n	20		400	150		-	-		250		-	-	1/17	
TISIIO	SW	-	_	_	150	60	40	800		-	50	_	-	-		-	-	200		-	-	2/12	
TISIII	SW	-	-	625	150	60	40	800		-	100	-	150			-		250	-	-	-	1/2	
TISI12	SW	-	-	625	150	-	40	600	20n	50	100	300	-	-		-				-	-	1/2	
TISI25	АН	_	-		150	40	30	50	50n	10	30		4	-		-	-	600				1/17	
TISI26	АН	_	_	_	150	45	30	50	50n	30	25	-	10	_	-	-		600		-	-	1/17	
TISI28	AH	-	-	_	150	60	45	30	100n	25	30		2	-		-	-	000	-	-	-	4/7	
TISI29	AH	-	-		150	-	25	30	100n	25	60	150	4	-	-	-	-	800	-	-	-	1/7	
TIS133	SW	-	-	_	150	50	30	500	1.7	60	60	-	-	-		-	-		-	-	+-	1/17	
TISI34	SW	-	_	_	150	-	30	500	1.7	60	50	+	+	-	-	-	_				-	1/17	
TISI35	SW	_	_		150	+ -	50	500	1.7	60	60	-	+	-	-	-	-		-	-	-	1/17	
TISI36	SW	_	_	700	150	_	50	500	1.7	60	50	150	-	-		-	-	00	-	-	-	1/ ₇	
TISI37	AH	S	_	625	150	35	32	50	100n	10	45		1			-	-	80	-	-	-	4/2	_
TIS138	АН	S	P	625	150	35	32	50	100n	10	25	-	1	-	-	-		50	-	-	1	% ₇	
		L	1		_			-		-	-	-	-		-	-	-	-		-	-		
	(1	1												1					1				

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N6324	2SC1435					2SC1299			
2N6325	2SC1435					2SC1401			
2N6326	2SC1435					2SC1299		-	
2N6327	2SC1435					2SC1299			
2N6328	2SC1435					2SC1299			
2N6329									
2N6330									
2N6331									
2N6461	2SC996		2SC685						
2N6462	2SC996		2SC685						
2N6463	2SC996		2SC685						
2N6464	2SC996	_	2SC685						
T1S37		2SA682					2SA706		
TIS38		2SA682	-				2SA706		
TIS62A		2SC729					2SC470		
TIS63A		2SC729					2SC470		
TIS64A		2SC729					2SC470		
TIS84		2SC729					2SC470		
TIS86		2SC729					2SC470		
TIS87		2SC729					2SC470		
TIS90	2SC509					2SC1247			
TIS90M	2SC509	-	-	_		2SC1247			
TIS9I		2SA643		2SA696					
TIS9IM		2SA643		2SA696					
TIS92	2SC509			20/1000		2SC1247			
TIS92M	2SC509					2SC1247			1
T1S93	200000	2SA643		2SA696					<u> </u>
TIS93M		2SA643		2SA696					
T1S94		2SC959		201.000			2SC1124		
T1S95		2SC959					2SC1124	-	
T1S96		2SC959					2SC1124		
T1S97		2SC959					2SC1124		
T1S98		2SC959					2SC1124		
T1S99		200333					2SC1124		
TIS100	2SC995						2SC1127		
TISIOI	2SC995						2SC1127		1
TISI05	2SC501					2SC971	2301127		
TISI08	230301					2SC971			
TIS109		2SC959		<u> </u>		200311	2SC1124		
TISIIO		2SC959 2SC959					2SC1124		
TISIII		2SC959 2SC959					2SC1124		
TISIII		230333	2SA537		2SA546		2001124		-
TISII2			20A331		23A340	2SC829			
TISI25				-		2SC829			-
			2SA530			2SC829 2SA558			
TISI28			2SA530 2SC684			4 SA338	2SC1128		
		200050	230004				2SC1128 2SC1124		
TISI33		2SC959					2SC1124 2SC1124		-
TISI34		2SC959					-		
TISI35		2SC959		-			2SC1124		
TISI36		. 2SC959		1			2SC1124		-
TISI37		2SA682-		-			2SA706		-
TISI38		2SA682					2SA706		
							1		

		₹	≽		XIMUI	w R	ATINGS						- 1		L CHAR.	HOTER	131163	fr				OUTLINE	
TYPE	USE	MATERIA	POLALITY	Pc 25*C	T _I	Vos	VCEO	lc (=•)	l co	_		hre		hfe	hie (Ω)	hre (×10)	hoe (µඊ)	*fae **fab (MHz)	NF (dB)	Cob (pF)	Coxrbb'	TO.	NOTI
				(mW)	(°C)	(V)	(V)	(mA)	(μA)	V08(V)	min.		Ic(mA)		(34)	(~10)	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(MHz) 0.22	(00)	()	(%7	
11156	AP	G	Р	25W	100	30	30	3A	80	2	25	75 75	500 500			-		0.22				5/67	
1156L	AP	G	Р	25W	100	30	30	3A	80	20	25 20	60	1A			-		0.22			-	669	
1159	AP	G	Р	20W	100	40	40	3A	125		20	60	IA									%9 %9	
1160	AP	G	Р		100	60	60	3A		30 40	20	60	IA			-						6/69	
1161	AP	G	Р		100	100	100	3A 3A		50	20	60	IA			_					\vdash	%9 %9	
1162	AP	G	P N	15W	100 200	80	60	IA		30	20	80	200					50			-	5	
1486	APH		N	15W	200	80	60	1A			20	80	200				-	50		_		-	
11131	APH		N	80W	175	200		7.5A			30	120	2A			 		7.5		_		61	
11132	APH	_	N	80W	175	200		7.5A		_	15	60	2A				-	7.5				61	
11133	APH	_	N	80W	175	150		7.5A			30	120	2A			1		7.5				61	
11134	APH		N	80W	175	150		7.5A			15	60	2A					7.5				61	
11135	APH		N	80W	175	100		7.5A			30	120	2A					7.5				61	
11136	APH		N	80W	175	100		7.5A			15	60	2A					7.5				61	
11151	APH		N	80W	175	200	100	7.5A			20	80	5A					7.5				61	
11152	APH	_	N	80W	175	200	100	7.5A			10	40	5A					7.5				61	
11153	APH	_	N	80W	175	150	75	7.5A			20	80	5A					7.5				61	
11154	APH	S	N	80W	175	150	75	7.5A			10	40	5A					7.5			L.	61	
11155	APH	S	N	80W	175	100	50	7.5A			20	80	5A					7.5				61	
11156	APH	S	N	80W.	175	100	50	7.5A			10	40	5A			_		7.5			-	61	
13027	AP	G	Р	106W	100	45	L.	7A	ImA	30	40	250				<u> </u>		<u> </u>			1	61	
13028	AP	G	Р	106₩	100	60		7A	ImA	40	40	250	3A			_		ļ	_		-	3	
13029	ΑP	G	Р	106W	100	80		7A	ImA	50	40	250									-	3	
13030	ΑP	G	Р	106W	100	100		7A	ImA	60	40	250	_			_	_		-		-	3	
13031	AP	G	Р	106W	100	120		7A	ImA	70	40	250		_		<u> </u>				_		-	
1P29	APH	_	N	30W	150	40	40	IA.		_	15	75	IA	_		-		3			-	5/319 5/319	
IP29A	APH	_	N	30W	150	60	60	IA		<u> </u>	15	75	IA			+		3		-	-	5/319	
TIP29B	APH		N	30W	150	80	80	IA		_	15	75	IA		-	╆.	-	3	-	-	+	5/319	
TIP29C	APH		N	30W	150	100	100	IΑ		-	15	75 75			-	┿-	-	3	-	-	+	5/319	
TIP30	APH	-	Р	30W	150	40	40	IA IA		-	15	75	IA A		-		+	3			+	5/319	
TIP30A	APH	-	P	30W	150 150	80	60 80	IA	_	-	15	75		\vdash		+		3	-			5/319	
TIP30B	APH	-	P	30W	150	_	100	1A	_		15	75	_			+		3				5/319	
TIP30C	APH	_	۲,	40W	150	_	40	3A			10	50	_			+		3				5/327	
TIP31A	AP	_	N	40W	150	60	60	3A			10	50	_			+		3				5/327	
TIP31B	APH	_	N	40W	150	_	80	3A		1	10	50	_				 	3			8	5/327	
TIP31C	APH	_	N	40W	150	_	100	3A			10	50	3A					3				5/127	
TIP32	APH	-	P	40W	150		40	3A		1	10	50	-			T		3				5/32 7	
TIP32A	APH		_	40W	150	_	60	3A			10	50	3A				L	3				5∕32 7	
1P32B	APH	_	P	40W	150	_	80	3A		1	10	50	3A					3				5 √321	
TIP32C	APH	S	P	40W	150	100	100	3A			10	50						3	<u></u>			327	
TIP33	AP	S	N	80W	150	40	40	IOA			20	100	_				1_	3		_		5/33 5	<u> </u>
ГІР33А	APH	S	N	80W	150	_	60				20	100	_			\perp		3	1	_	1	⅓33 S	-
1P33B	APH		N	80W	150		80	_			20	100	-	\vdash	<u> </u>	L	1	3	_	_	_	3335	<u> </u>
IP33C	APH	_	N	80W	150	_	100				20	100				1	1	3		-	+	5/335 5/	-
TIP34	APH	-	-	80W	150	_	40			_	20	100	_			1		3	-	-	+	⅓35 5∕	-
TIP34A	API			80W	150		60	_	ļ	1	20	100		-		+	1	3	-	+	+-	5/33 5 5/33 5	
TIP34B	API		Р	80W	150		80		_	_	20	100		⊢ −	1	+	-	3	-	-	+		_
TIP34C	APH	_	_	80W	150		_		<u> </u>	<u> </u>	20	100		-	-	+	+ -	3	-	+		5/33 5 5/43	
TIP35	APH	_	_	125W	150		40		<u> </u>		10	50	_	\vdash	1	+	-	3	-	-	+	7543 543	+-
TIP35A	API		_	125W	150	_	60	_	-	-	10	50	_	-	-	+	-	3	+	+	+	7343 5/343	\vdash
TIP35B	AP	_	N	125W	150	_	80	_	-	+	10	50	_	\vdash	-	\vdash	-	3	+	+	+	5/343	<u> </u>
TIP35C TIP36	AP			125W	150	_	100		-	,	10	50	_	-	-	+		3	+	+-	+	5/343	
	API	1 S	P	125W	150	40	40	25 A	1		10	اد	15A			\perp		3	-	+	-	×343	-

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
T1156		2SB251	2SB337		2SB449				
T1156L		2SB251	2SB337		2SB449				
T1159		2SB251A	2SB337	-	2SB449				
T1160		2SB251A	2SB340		2SB449	-			
TII6I		2SB252	2SB340						
T1162		2SB252A	2SB340						
T1486		2SC1161			2SC1398				
T1487		2SC1161			2SC1398				
T11131	2SC1079			1		2SC1229	2SC807		
T11132	2SC1079					2SC1229	2SC807		
T11133	2SC1079					2SC1229	2SC807		
T11134	2SC1079					2SC1229	2SC807		
T11135 ·	2SC1079					2SC1229	2SC807		
T11136	2SC1079					2SC1229	2SC807		
T11151	2SC1195					2SC1229	2SC807		
T11152	2SC1195					2SC1229	2SC807		
T11153	2SC1079					2SC1229	2SC807		
T11154	2SC1079					2SC1229	2SC807		
T11155	2SC1079					2SC1229	2SC807		
T11156	2SC1079					2SC1229	2SC807		
T13027		2SA650					2SB520		
T13028		2SA650					2SB520		
T13029		2SA650			-		2SB520		
T13030		2SA650					2SB520		+
TI3031		2SA650					2SB520		
TIP29	2SD103	2SD217			2SD226B				
TIP29A	2SD103	2SD217							
TIP29B	2SD102	2SD217					,	-	-
TIP29C	2SD102	2SD217							
TIP30	2SB503	2SB506							_
TIP30A	2SB503	2SB506							
TIP30B	2SB502	2SB506							
TIP30C	2SB502	2SB506		-					
TIP31	2SD111			-			2SD316		
TIP3IA	2SD111	,					2SD316		
TIP3IB	2SD111	,					2SD316		
TIP31C	2SDIII						2SD316		_
TIP32	2SA679						2SB518		
TIP32A	2SA679						2SB518		_
TIP32B	2SA679						2SB518		_
TIP32C	2SA679						2SB518		_
TIP33	2 SAUTS		2SC1343			2SC1229	232310	-30	-
TIP33A			2SC1343	-		2SC1229			<u> </u>
TIP33B			2SC1343			2SC1229		- 3	
TIP33B			2SC1343			2SC1229			
TIP33C	000070		2001343			2001223	2SB519		
TIP34A	2SA679						2SB519		
TIP34B	2SA679						2SB519 2SB519		
TIP34B	2SA679	-					2SB519		
TIP35	2SA679			-		200250	230313		
	2SD114					2SD250			
TIP35A	2SD114					2SD250	-		
TIP35B	2SD113					2SD250			
TIP35C	2SD113					2SD250			
TIP36									
TIP36A									

		_	T	Т	MA	XIMUI	M R	ATING	S					EL	ECTRICAL	CHAR	ACTER	STICS				-		
TYPE	USE	ERIA	POLATIT	į	Pc	Tj	Vos	VCEO	Ic	l ce	0		hre		hfe	hie	hre	hoe	fi *fae	NF	Ceb	Coxrbb	OUTLINE	NOTE
		MATERI	POI	3	25°C mW)	(°C)	(V)	(V)	(mA)	(µA)	Vas(V)	min.	max.	lc(mA)		(Ω)	(×10)	(#B)	**fab (MHz)	(dB)	(pF)	(ps)	TO.	
TIP36B	APP	S	Р		25 W	150	80	80	25A			10	50	15A					3				3/343	
TIP36C	APP	S	Р	1:	25 W	150	100	100	25A			10	50	15A		-			3				5/343	
TIP41	APP	S	N	6	5W	150	40	40	6A			15	75	3A					3				5∕351	
TIP41A	AHP	S	N	6	5W	150	60	60	6A			15	75	3A					3				5/351	
TIP41B	AHP	S	N	6	5W	150	80	80	6A			15	75	3A					3				5/351	
TIP4IC	APH	S	N	6	5W	150	100	100	6A			15	75	3A					3				5/351	
TIP42	APH	S	P	6	5W	150	40	40	6A			15	75	3A					3				5∕351	
TIP42A	APH	S	Р	6	5W	150	60	60	6A			15	75	3A					3				5∕351	
TIP42B	APH	S	Р	6	5W	150	80	80	6A			15	75	3A					3				5∕351	
TIP42C	APH	S	Р	6	5W	150	100	100	6A			15	75	3A					3				5/351	
T1P47	AP	S	Ν	40	0W	150	350	250	IΑ			30	150	300					10				5/359	
TIP48	AP	S	N	40	0W	150	400	300	1A			30	150	300					10				5/359	
TIP49	AP	S	N	40	0W	150	450	350	IA			30	150	300					10				5/359	
TIP50	ΑP	S	N	40	0W	150	500	400	IA			30	150	300					10				5/359	
TIP51	AP	Ś	N	10	00W	150	350	250	3A			30	150	300					2.5				5/63	
TIP52	AP	S	N	10	00W	150	400	300	3A			30	150	300					2.5				5/363	
TIP53	AP	S	N	11	00W	150	450	350	3A			30	150	300					2.5				5/363	
TIP54	AP	S	N	10	00W	150	500	400	3A			30	150	300			L		2.5				5/363	
TIPIIO	AP	S	N	50	ow	150	60	60	2A	lmA	60	1000		IA									5/367	OARLINGTO
TIPILI	AP	S	N	50	ow	150	80	80	2A	ImA	80	1000		IΑ									5/367	DARLINGTO
TIP112	AP	S	Ν	50	0W	150	100	100	2A	ImA	100	1000		IΑ									5/367	DARLINGTO
TIPI15	AP	S	Р	50	ow	150	60	60	2A	ImA	60	1000		IΑ									5/367	DARLINGTO
TIPI16	AP	S	P	50	0W	150	80	80	2A	ImA	80	1000		ΙA		_							5/367	DARLINGTO
TIPI17	AP	S	P	50	0W	150	100	100	2A	ŀmΑ	100	1000		ΙA									5/367	DARLINGTO
TIPI20	AP	S	N	6	5W	150	60	60	5A	200	60	1000		3A									5/375	DARLINGTO
TIP121	AP	S	N	6	5W	150	80	80	5A .	200	80	1000		3A								0	5/375	DARLINGTO
TIP122	AP	S	N	6	5W	150	100	100	5A	200	100	1000		3A									5/375	DARLINGTO
TIP125	ΑP	S	P	6	5W	150	60	60	5A	200	60	1000		3A									3/313	DARLINGTO
TIPI26	AP	S	P	6	5W	150	80	80	5A	200	80	1000		3A									5 7375	DARLINGTO
TIP127	AP	S	P	6	5W	150	100	100	5A	200	100	1000		3A									5/375	DARLINGTO
TIPI40	ΑP	S	N	112	25W	150	60	60	10A	ImA	60	1000		5A									5/383	DARLINGTO
TIPI4I	ΑP	S	N	12	25W	150	80	80	IOA	ImA	80	1000		5A									5/383	DARLINGTO
TIP142	AP	S	N	12	25W	150	100	100	10A	ŀmΑ	100	1000		5A									5/383	DARLINGTO
TIPI45	AP	S	P	12	25W	150	60	60	IOA	lmA	60	1000		5A									5/383	DARLINGTO
TIP146	AP	S	P	1;	25W	150	80	80	IOA	1mA	80	1000		5A									5/383	DARLINGTO
TIP(47	ΑP	S	P	12	25W	150	100	100	10A	ImA	100	1000		5A									5∕383	DARLINGTO
TIP501	APH	S	N	6	w	200	40	40	3A	10	40	25	180	IΑ					60				39	
TIP502	APH	S	N	6	w	200	60	60	3A	10	60	25	180	IA			1-		60				39	
TIP503	APH	S	N	20	ow	200	130	120	2A			40	200	IA					70				66	
TIP504	APH	S	N	20	ow	200	160	150	2A			40	200	IA					70			T	66	
TIP505	APH	S	N	20	0W	200	130	120	2A	- 1		40	200	IA					70				59	
TIP506	APH	S	Ñ	20	ow	200	160	150	2A			40	200	IA					70				59	
TIP507	APH	s	P	20	ow	200	150	150	2A			30	120	IA					50				59	
TIP508	АРН	s	P	4	w	200	150	150	2A			30	120	ΙA					50				39	
TIP509	APH	S	N	31	0W	200	130	120	4A			40	200	2A					70				3	
TIP510	APH	S	N	31	ow	200	160	150	4A			40	200	2A					70				3	
TIP511	APH	S	N	31	ow	200	130	120	4A			40	200	2A					70				61	
TIP512	APH	S	N	31	0W	200	160	150	4A			40	200	2A					70				61	
TIP513	APH	s	_	31	0W	200	150	150	5A			30	150	2.5A					40				59	
TIP514	APH	_	_	21	0W	200	150	150	5A			30	150	2.5A					40				66	
TIP515	APH	S	N	81	0W	200	130	120	12A			40	200	6A					70				3	
TIP516	APH	S		_		200	160	150	12A			40	200						70				3	
TIP517	APH	S	N	_	-	200	130	120	12A			40	200	6A			T		70			1	61	
TIP518	APH	s	IN.	-	_	200	160	150	12A			40	200	6A			t		70				61	
5.5	APH	_	-	-		200	150	150	8A			30	150						40				3	

TIPS6B	ТҮРЕ	TOSHIBA	NEC	HiTACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
TIP41	TIP36B									†
TIP41A	TIP36C								-	
TiP41B	TIP41	2SC793		2SC681		_			,	_
TIPHIC ZSC793	TIP41A	2SC793		2SC681						
TIP42	TIP41B	2SC793		2SC681						
TIP42	TIP4IC	2SC793		2SC681	_				_	$\overline{}$
TIP428	TIP42		2SA627							$\overline{}$
TiP42C	TIP42A	2SA658	2SA627							
TiP47	TIP42B	2SA657	2SA627							
TiP48	TIP42C	2SA657	2SA627							+
TIP48	TIP47	2SC1005						2SC1348	-	+
TIP49	TIP48	2SC1005			_		_			†
TIP50	TIP49									
TIP51	TIP50	2SC1005								
TiP52	TIP5I									+
TiP54	TIP52						_			-
TIP54	TIP53									+
Tip110	TIP54			,						
Tip111	TIPI 10	2SD107								
TiPi12	TIPITI	2SD107								
TIP115	TIP112	2SD111				1			-	
TIP116	TIPI15		2SB506	_						
TIPI17	TIPI16						-	_		
Tip120	TIP117									
TIP121	TIPI20							2SD88		+
Tip122										
Tip125										
Tip126			2SB506							
TIP127					17		77	-		
TIP140										
Tip141							2SD196	202010		
TIP142	TIPI4I									
Tip145										
Tip146								2SB520		
TIP147									_	
Tip501	TIPI47	-								
Tip502			2SC1306	2501061		2SC697				
Tip503		-								
TiP504		-			250767					
TiP505										
Tip506								-	_	
TIP507 2SA649 TIP508 2SC1433 TIP509 2SC1433 TIP510 2SC1433 TIP511 2SC1433 2SC681 TIP512 2SC1433 2SC681 TIP513 2SA656 TIP514 2SA656 TIP515 2SC1079 2SC1343 2SC1343 TIP516 2SC1079 2SC1343 TIP517 TIP517 2SC1079 2SC1343 TIP518 2SC1079 2SC1343 TIP518 2SC1079 2SC1343 TIP518										
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	TIP519	2SA656		2001343						

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TYPE	USE	MATERIA	POLALITY	Pc 25°C	Tj	Vœ	VCEO	Ic	Icac)		hee		hfe	hie	hre	hoe	fr *fae	NF	Cob	Coxrbb	TO.	NOTE
		MA	PO	(m\mathbb{W})	(°C)	(V)	(v)	(mA)	(μ A)	Vos(V)			lc(mA)		(Ω)	(×10)	(Du)	**f ab (MHz)	(dB)	(pF)	(ps)		
TIP520	APH	S	P	50W	200	150	150				30	150	4A					40				61	
TIP521	APH	S	P	20W	200	200	200	2A			20	100	IA					50				59	
T1P522	APH	S	Р	4W	200	200	200	2A			20	100	IA					50				39	
T1P523	APH	S	Р	30W	200	200	200	5A			20	100	2.5A					40				59	
TIP524	APH	S	Р	6W	200	200	200	5A			20	100	2.5A					40				39	
TIP525	APH	S	N	60W	200	250	200	5A			30	150	2.5A					40				3	
TIP526	APH	S	N	60W	200	250	200	5A			30	150	2.5A					40				61	
TIP527	APH		P	60W	200	200	200	8A			20	100	4A					40				3	
TIP528	APH	_	P	60W	200	200	200	8A			20	100	4A					40				61	
TIP529	APH		N	67W	200	400	300	3A			25	125	1.5A					20				61	
TIP530	APH	-	N	20W	200	400	300	3A			25	125	1.5A					20				66	
TIP531	APH	-	N	150W	175	340	300	15A	-		20		7.5A					50				3	
TIP532	APH		N	150W	175	450	400	15A			20	120	7.5A		-	-		50				3	- 0
TIP533	APH	_	N	150W	175	340	300	15A			20	120	7.5A					50			+	63	
TIP534	APH	_	N	150W	175	450	400	15A			20	120						50			-	63	
		_		100W	200		200				20	100						10				3	
T1P535	APH		N					-				100	5A			-		10				3	
TIP536	APH	_	N	100W	200	400	300	-			20	_	_	_	_	-	_	10		-	1	3	
TIP537	APH		N	100W	200	_	400				20	100	-			+		10			+-	3	
TIP538	APH	_	N	125W	200	300	200				20		7.5A			-				_	\vdash	3	
TIP539	APH	_	N	125W	200		300				20		7.5A		_	-		10		-	-	3	
TIP540	APH		N	125W	200	500	400				20	100	7.5A					10		<u> </u>	-	_	
TIP541	APH		N	4W	200	50	45	1			40	200						150		L	-	39	
TIP542	APH	S	N	40W	200	50	45	HOA			40	200	5A					150			_	59	
TIP543	APH	S	N	40W	200	75	65	IOA			40	200				1		120				59	
TIP544	APH	S	P	150W	200	100	100	6A	1mA	001	25	100	3A					- 1				3	
TIP545	APH	S	P	150W	200	120	120	6A	ImA	120	20	80	3A					1				3	-
TIP546	APH	S	P	150W	200	140	140	6A	3mA	140	15	60	3A					1				3	
TIP640	AP	S	N	175W	200	60	60	IOA	ImA	60	1000		5A									3	DARLINGTO
TIP641	AP	S	N	175W	200	80	80	IOA	ImA	80	1000		5A									3	DARLINGTO
T1P642	AP	S	N	175W	200	100	100	-	ImA	100	1000		5A									3	DARLINGTO
TIP645	AP	S	P	175W	200	60	60	-	ImA	60	1000	_	5A									3	DARLINGTO
TIP646	AP	S	P	175W	200	80	80		ImA	80	1000	_	5A			+					_	3	DARLINGTO
TIP647	AP	S	P	175W	200	100	100	1	ImA	100	1000	_	5A			+			-		_	3	DARLINGTO
TIP2955	APH		P	90W	150	100	70		1111123	100	20		4A	\vdash								5/41	
	APR	$\overline{}$	_	90W	150	100	70			-	20		4A			-	-	_				5/441	
TIP3055	_	3	N	90 W	150	100	70	IJA			20	70	40			+	_	1			+	7,441	
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TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
TIP520	2SA656				-				
TIP521	2SC739								
TIP522						-			
TIP523	- 0								
TIP524									
TIP525	2SC558				2SC901A				
TIP526	2SC558				2SC901A				
TIP527				 					
TIP528									
TIP529	2SC1005	2SC1100	1	+			2SC1086		
T1P530	2SC1005	2SC1100					2001000		
TIP531	2SC1434	2501100		-		2SC1300			-
						2SC1300			_
TIP532	2SC1434			 		2SC1300 2SC1300			
TIP533	2SC1434								
TIP534	2SC1434				_	2SC1300	********		
TIP535							2SC807		
TIP536							2SC807		-
TIP537							2SC807		
TIP538	2SC1434								
TIP539	2SC1434								
TIP540	2SC1434								
TIP541	2SC549	2SC799		2SC1239		2SC866			
.TIP542				2SC889					
TIP543		,		2SC889					
TIP544									
TIP545									
TIP546					_				1
TIP640						2SC1301			
TIP641						2SC1301			
TIP642			1			2SC1301			
TIP645						2007001			
TIP646								_	
TIP647				_					
TIP2955	2SA679						2SB520		
				-		2SC1301	200020		
TIP3055	2SC1079					2501301			
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MOTOROLA

			>	МА	XIMUM	RA	TINGS						ELE	CTRICAL	L CHARA	CTERI	STICS						
TYPE	USE	MATERIAL	POLALITY	Pc	Tj	Voa	Vœ	łc	10	200		ħFE		hfe	hie	hre	hoe	fr a fee	NF	Cob	Coxitto	OUTLINE	NOTE
		MA	g.	25℃ (m₩)	(0)	(V)	(¥)	(mA)	(µA)	Vos(V)	min.	max.	Ic(mA)	1	(Ω)	(×10)	(g ₁)	*fae *#fao (MHz)	(dB)	(pF)	(ps)	TO-	
2N174	SP	G	Р	100W	95	80	70	15A	2 mA	80	25	50	5 A					10K*				36	
2N176	AH	G	P	90W	80	40	30	3 A	50	2	25		500	45	7			7K*				3	
2N178	Α	G	Р	40 W	90	30	30	3 A	50	2	15	45	500	30	8			5K*				3	
2N242	A.	G	Р	20 W	85	45	45	5 A	5 mA	ï	30	120	500					5K*				3	
2N277	AP	G	Р	70W	95	40	40	15 A	100	2	35	70	5 A					10K*				36	
2N297A	AP	G	Р	35 W	95	60	50	5 A	3 mA	60	40	100	500					5K*				3	
2N319	Α	G	Р	225	85	25	20	500	16	25	23	42	20	ļ				1**		35	ļ	5	
2N322	Α	G	Р	140	60	18	18	500	16	16	34	65	20					1 **	LKWZ	35		5	
2N331 2N350A	AP	G	P P	200 90W	71	30 -50	40		10 50	30	30 20	70 60	700	30	-			5V*	1 KHZ 20	50	<u> </u>	5	
2N375	AP	G	P	58W	95	80	60	3 A	3 mA	60	35	90	1 A	30	5			5K*	_			3	
2N378	SP	G	P	50 W	100	20	- 00	5 A	500	25	40	80	2 A					5K*				3	
2N381	A	G	P	200	100	50	25	400	6	25	35	65	20	35	300	6.6	420	3 **	I KHZ 6	20	_	5	
2N398	SP	G	P	50	55	105	105	100	12	105	20	<u>~~</u>	5	<u> </u>				1 **	<u> </u>			5	
2N404	S	G	P	150	85	25		150	0.8	12	30		12	135	3.6K	8	50			8		5	
2N441	AP	G	Р	150W	95	40	40	10 A	2 nA	40	20	40	5 A					10K*				36	
2N456A	AP	G	Ρ	150W		40	40	7 A	500	20	30	90	5 A		28			0.2				3	
2N460	Α	G	Р	200	100	45		400	15	45	16	32		17				1.2**	1 KHZ 4	20		5	
2N464	Α	G	Р	150	85	45	40	500	6	20				14	900				1 KHZ 22			5	
2N499	АН	G	Ρ	30	85	30	18	50	10	15				20		Ш		120	200 MHZ 7.5	2.5	5	ı	
2N508A	Α	G	Р	100	30	30		200	7	25	100	200	20	75				2.5**	1 KHZ 5	35		5	
2N524	Α	G	Р	225	100	45	30	500	10	30	25	42	20	18				0.8**	1 KHZ 1 5	5		5	
2N559 2N650	A	G	P P	150 200	100	15 45	30	500	5 3	30	25 30	150	10	30				300	3 KHZ	6		18 5	
2N653	A	G	P	200	100	30	25	250	5	25	20		10	30	750			1.5	5 1 KHZ 10	10		5	
2N656	A	S	N	4 W	200	60	60	230	10	30	30	90	200	30	500			1.5	10	10		5	
2N665	SP	G	P	35 W	95	80	40	3 A	50	2	40	80	500		300			20K*				3	
2N696	S	S	N	600	175	60	40		- 1	30	20	60	150					40		35		5	
2N699	S	S	N	600	175	120	80		. 2	60	40	120	150	35				50		20		39	
2N700	AH	G	Р	75	100	25	20	50	0.4	6	1.5		2	4					76 MH Z 6	1.1		17	
2N702	SH	S	N	300	175	25	25	50	0.5	10	20	60	10					70		3		18	
2N705	SH	G	Р	300	100	15	15	50	0.2	5	25		10	9				300**		5		18	
2N706	SH	S	N	300	175	25	20		0.005	15	20		10	2				400		4.5		18	
2N707	AHP	S	N	300	175	56	28		0.005	15	9		10					350		4	80	18	
2N708	SH	S	N P		200	40	20	50	0.005	20	30	120	10					450		3		18	
2N711 2N718	SH	G S	N N	150 400	175	60	40	50	0.2	5 30	20 40	250 120	150	1.5						6 5		18	
2N718A	AH	S	N	400	175	60	40		0.001	60	40	120	150	30				300	I KHZ	4		18	
2N720	AH	S	N	400	175	120	80		10 nA	90	40	120	150	100		\dashv		50	12	15		18	
2N721	AH	S	P	400	200	50	50		10,,,,,	30	20	45	150	50				50		45		18	
2N722	АН	S	P	400	175	50	50	500	i	30	30	40	150	25				60		45		18	
2N726	A	s	Р	300	175	25	20	50	- 1	25	15	45	10	90		\neg		140		5		18	
2N731	Α	s	N	500	175	60	40	J A	П	30	40	120	150					25		35		18	
2N735	Α	S	N	500	175	80	60	I A		40	30	100	5	100	1.5K					10		- 18	
2N741	ΑН	G	Р	150	100	15	15	100	0.2	6	10		5	20				360	30MH2	6		18	
2N743	SH	S	N		200	20	12	200	- 1	20	20	60	10					282		5		18	
2N744	SH	S	N	300	175	20	12	200			40	120	10	4.5		_						18	
2N827	SH	G	P P	150	100	20	20	100	0.5	15	100		10	3.5		\dashv		400		4	-	18	
2N828 2N828A	SH	G G	P	150	100	15	15	200	0.4	6	25 25	-	10 10	4		\dashv		400 400		2.2	\dashv	18	
2N828A 2N834	SH		N	300	175	40	30	200	0.5	20	25		10	4		\rightarrow		350		4	\dashv	18	
2N838	SH	_	P	150	100	30	30	100	0.5	15	30	-	10	4.5		\dashv		330		2		18	
2N840	AH		N	300	175	45	45	1 A	- ;	45	30	100	10	90	500	\dashv	1.2	1.5		15	\dashv	18	
2N869	AH	S	P		200	25	18		10.0	15	20	120	10	3	300	\neg				3		18	
2N869A	S	S	P	_	200	18	18	200	25	15	_	120	30			+		400		6	\dashv	18	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N174					_		2SB520		
2N176									
2N178			2 SB 340		2SB126	2SB151		-	
2N242	2SB 465	_						2SB 342	
2N277							2 SB 520		
2N297A	2SB 366	2SB252	2 SB 442		2SB310				
2N319	2SB 461	2SB326	2SB370A	2SB 451		2SB 427			
2N322	2 SB 364		2 SB 156 A	2 SB 457	2SB370				
2N331									
2N350A									
2N375									
2N378	2SB 531	2 SB 246	2 SB 337		2 SB 232	2SB318			
2N381	2 S A 28			-					
2N398									ļ
2N404	2SB 439			2SB136					
2N441	7		2SB 337						
2N456A									-
2N460		2 SB 224							
2N464									
2N499									-
2N508A	2SB 51	· ·							
2N524		2SB 224	-			2 SB 427			
2N559		2SA 405			2SA774A				-
2N650		2SB224				2 SB 427			-
2N653					2SB 280		2SB 53		
2N656			2SD 120						
2N665									ļ
2N696	2SC1166	2 SC 729				2SC 218			-
2N699	2SC 500					2SC 88		2SC 66	
2 N 7 0 0						2SA 139			
2N702	2SC 394	2SC 925	2SC717			2SC724	2 SC1126		
2N705									
2N706		2SC1044			2SC 583				
2N707		2SC1044			2 SC 583			<u></u>	
2N708									-
2N711	2SA 75	2SA 167							
2N718	·								-
2N718A									
2N720				1			-		
2N721	2SA594			<u> </u>	2 S A 720	2SA 580	1	+	+
2N722	2SA594				2SA 720	2SA 580	ļ		
2N726							-	1	_
2N731	2 SC 486	2SC959			2 SC 696		-	2SC 873	
2N735	2SC 485	2SC959		<u> </u>	2SC 696			2 SC 873	
2N741	<u></u>	ļ	2SA 211				-		+
2N743	2 S C 395 A	2SC639	2SC689H		2 SC 456	2SC 554			-
2N744	2SC 395 A	2SC 639	2SC 689H		2SC 456		-	1	+
2N827		2SA206				2SA556			+
2N828	2SA 65	2 S A 206		<u> </u>		2SA556	1		+
2N828A	2SA 65	2 SA 206				2SA556	-		
2N834		2SC1216'	2SC321H	2\$C733		2SC 131			-
2N838						2SA558			
2N840	u 1						1		
2N869				1					1

	1	AL.	Ţ	M/	XIMUM	l RA	TINGS						EL	ECTRICA	L CHARA	ACTERI	STICS						
TYPE	USE	MATERI	POLALITY	Pc 25℃	(T)	Vas	V cao	1c		080		hre		hfe	hie	hre	hoe	fT *fae *#fap	NF	Cob	Coxrbb	OUTLINE TO-	NOTE
2N910	-		ļ	(mW)		(V)	(V)	(mA)	(μA)	Vos(V)	min.	max.	Ic(mA)		(Ω)	(×10)	(μδ)	(MHz)	(dB)	(pF)	(ps)		
	SH	S	N	500	200	100	80	150	25 nA	_	75	100	10		1.8K		100	60	1 KHZ 12	15		18	
2N914	AH	S	N	360	200	40	20	150	0.025	_	30	120	10	0.5	- 1			300		6		18	
2N915 2N916	AH	S	N N	360 360	200	70 45	50 25		10 nA	60	50	200	10	2.5	6 K	-	75 75	-		3.5	<u> </u>	18	
2N918	AH	S	N	200	200	30	15	50	10 0 nA	30	50 20	200	10	200	6 K	-	/5		60MHZ	6	25	18 72	
2N929	A	S	N	600	175	45	45	-	10 nA	15	-	120		25.0		-		20	10 HHZ	1.7	25	_	
2N960	SH	G	P	150	100	_	15	30	_	45	40	120	10µA	350		-		30	4	8		18	
2N963	SH	G	P	150	100	15	12		0.4	6	20		10					460		2.2		18	
2N964A	SH	G	P	150	100	15	15	-	0.4	6	40	-	10	4.0				300		2.7	_	18	
2N968	SH	G	P	150	100	15	15		3	6	17	-	10	4.6				460		- 7	-	18	
2N978	AH	S	Р	330	150	30	20	600	5	10		60	150	-				320		45		18	
2N985	SH	G	P	150	100	15	7	200	3	5	15 40	60	10	2						6		18	
2N996	AH	S	P	360	200	15	12	200	5 nA	10	35		20					100		10		18	
2N998	AL	S	N	500	200	100	60	500	0.01	90	35		20	1000				100	I KHZ	30		72	DARLING
2N1008	-	G	P	300	85	20		300	-	_				-	200				6	30	-		DAKLING
2N1011	A	G	P	35 W	95	80	15 80	5 A	5 200	2	30	75	2.4	40	200			- 14 *				5 3	
2N1021	AP	G	P	50 W	95	100	100	5 A	500	50	23	70	3 A		28			5 K*				3	
2N1038	AP	G	P	20 W	95	40	40	3 A	125		-	_	-	70	28			0.2				C180	
2N1042	AP	G	P	20 W	100	40	40	3.5A	125	20	20	60	1 A	72	-							C184	
2N1042	AP	G	P	20 99	110	40	40	10A		25	20		3 A	100	<u> </u>	-							-
2N1120	AP	G	P	45 W	95	80	70	15A	1 mA 20 mA	30	20	60	5 A	15		-		21/ *				41	
2N1131	S	S	P	600	175	50	35	600	ZUINA	30	20	50 45	10A	15				3 K *				5	
2N1141	AH	G	P	750	100	35	33	100	0.5	15	10	45	10	18				* *	4.5 MHZ		23	5	ļ .
2N1162	SP	G	P	90W	100	50	35	100	125	2	15	65	25	10				1000	3		23	3	
2N1185	A	G	P	200	100	45	30	500	3	30	130	170	10	260				4 K*	I KHZ			5	-
2N1189	A	G	P	200	100	45	30	500	3	30	60	170	10	200		\vdash		. **	5 I KHZ			5	
2N1191	A	G	P	200	100	40	25	200	15	25	20	80	10	40		Н		3.5*	5 1 KH2 10	20	-	5	
2N1204	SH	G	P	200	100	20	15	500	0.4	12	15	00	400	2				1.5	10	3.5		5	
2N1408	S	G	P	150	100	50	50	200	7	5	10		400	10				-		5.5		5	_
2N1412	SP	G	P	70W	95	100	65	15A	200	2	25	50	5 A					5 K*				36	
2N1413	S	G	P	200	85	35	25	500	12	30	25	42	20	20	_			0.8**				5	
2N1529	AP	G	P	90 W	100	40	30	5 A	0.2	2	20	40	3 A	- 20	L			0.8				3	
2N1539	AP	G	P	90W	100	40	30	5 A	0.2	2	50	100	3 A					4 K*				3	
2N1549	AP	G	P	90W	100	40	30	15A	0.2	2	10	30	10A					4 K				3	
2N1561	AH	G	P	250	100	25	15	250	15	10		 -	1071	10				500		7		107	
2N1651	AP	G	P	100W	110	60	60	25 A	200	2	35	140	IOA	20				000		<u> </u>		41	
2N1705	Α	G	P	200	100	18	12	400	5	10				110		6.9		3 **	I KHZ	20		5	
2N1708	SH	s	N	1 W	175	25	12	200	0.025	15	20		10			5.5		200	-	6		46	_
2N1724	AP	s	N	50W	175	120	80	5 A	100	3	20	90	2 A	1,6		\vdash				260	\neg	6	_
2N1751	AP	Ğ	P	106	110	80	80	25 A	200	2	30	90	20 A	20		\vdash		1.5**				3	
2N1893	AH	s	N	800	200	120	100	500	0.01	90	40	120	150	30		H	`	50		15	-	5	
2N1924	Α	G	Р	225	100	60	40	500	10	45	34	65	20	30	700	2	15	1**		30		5	
2N1959	SH	S	N	600	175	60	40	500	0.5	30	40	120	150			Ť		100		18		5	
2N1970	AP	G	Р	150W	100	100	50	15A	4 mA	100	17	40	5 A					5 K*				36	
2N1983	Α	s	N	600	150	50	25	I A	5	30				70	2 K			40		45		5	
2N1990	SP	S	N	600	150	100		ΙA			20		30						_			39	
2N2042	A	G	Р	200	100	105	105	200	25	105	20	50	5	20				0.5*	- 22	25		5	
2N2060	Α	-	N	500	200	100	80	500	0.002	80	50	150	10	50	1000		4	50	I KHZ	15		C32C	DUAL N
2N2075	AP	G	Р	170W	110	80	80	15A	0.2	2	20	40	5 A			\dashv		5 K*	· ·	-	7	36	3 NE 11
2N2137	AP	G	Р	62.5W	100	30	30		0.018	2	30	60	500			-+	-	20K*				3	
N2152	AP	G	Р	170W	110	45	45	30 A	0.08	2	50	100	5 A					2.7K			\dashv	36	
N2192	SH	s	N	800	200	60	40	I A	0.01	30	100	300	150	2.5		_		2.71		20		5	
N2212	AHP	G	Р	100W	110	120	120	IOA	200	2	50	120	5 A	15		\neg						41	
N2218	SH	s	N	800	175	60	30	800	0.01	50	40	120	150	30	ΙK	5	3	250	I KHZ	8	150	5	
N2224	SH	s	N	800	175	65	40	500	J . U,1	50	35	. 20	100	50	1 11	~	J	-00	4	· ·	. 50	J	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N910	2 SC 485	2SC 959	-		2SC 696	_			
2N914									
2N915									
2N916	2SC 495	2SC 881		2SC 1210	2SC 696				
2N918	2SC 372	2SC 900	2SC 458	2SC 1312	2SC 644				
2N929		2SC 1217	2SC 154C						_
2N960		2SA 405			2SA 774				
2N963		2SA 405			2SA 774				
2N964A		2SA 405			2SA 774		-	-	-
2N968		2SA 405			2SA 774				+
2N978		004 405			2SA 415			-	+
2N985		2SA 406			25A 415				_
2N996									
2N998	2SB 364	2 S B 327	2 SB 496					2SB 408	
2N1008	25B 364	2SB 327 2SB 252 A	2SB 361		2SB 282	2SB 151		2SB 406	+
2N1011 2N1021		23B 23Z M	2SB 361 2SB 362		200202	200101		2SB 410	+
2N1021 2N1038			200302		2SB 513			2SB 507	+
2N1038 2N1042					2SB 513			2 SB 507	†
2N1042 2N1073		-					 		
2N1120	_		2 SB 334	2SB 479				2SB 410	
2N1131	2SA 505		2SA 673 A	2SA 697	2SA 731				
2N1141	2SA 509	2SA 707		2SA 696					
2N1162									
2NI 185		2SB 226			2SB 324				
2N1189		2SB 226			2 SB 324				
2N1191		2 SB 226			2 SB 324				
2N1204	2SA 562	2 S A 723	2SA673	2SA 695		*			-11
2N1408	2SB 292A		2SB 77A						
2N1412									_
2N1413		2 S B 226	2SB370AH		2 SB 324	2SB 427			
2 N I 5 2 9									+
2N1539						_	-		+
2N1549		-					2SA 704		+
2N1561					 		25A 704		+
2N1651			20 : 070	004.005	0.04.720				+
2N1705	2SA 562	2SA 723	2SA 673	2SA 695	2SA 720 2SC 821	_	+		+
2N1708	2 S C 99 I	2SC319	2SD126	2SC 730	2 SD 189 A	2SD175	2SD 88	+	+
2N1724	2SD 10		230126		23D103A	230173	200 00		+
2N1751		2SC 590	-	-	-	-	+		+
2N1893	2SA 497	2SA 606		2SA 697	2SA 546				-
2N1924 2N1959	2SC 1382	23A 606	-	25/103/	20/1040		2SC1124		_
2N1959 2N1970	2SA 679	-	-		1	-			
2N1970 2N1983	2SC 1382	2 SC 959			2SC 1384				1
2N1990	2SC 1382	2SC 959		 	T				
2N2042	200,000								
2N2060									
2N2075		1					2SB520	-	
2N2137	2 S A 679								
2N2152									
2N2192	2 SC 495	2SC 959						サンケン	
2N2212	2SA679	2SA 650		. ^				2SA747	
2N2218	2SC 495	2 SC 959							
2N2224	2SC 495	2SC 959							

				MA	XIMUM	RA'	TINGS					_	ELE	CTRICAL	CHARA	CTERI	STICS			_			
TYPE		RIAL	E	Pc				Γ.	le	-		hre	-	hfe				ft	T	0	0.741	OUTLINE	NOTE
TYPE	USE	MATERIAL	POLALITY	25°C (mW)	(°C)	Voa (V)	(V)	(mA)	(μ A)	Vos(V)	min	max.	Ic(mA)	hte	hie (Q)	hre (×10)	hoe (μδ)	*fa'e **faD (MHz)	NF (dB)	Cob (pF)	Co×rbb [*] (ps)	TO-	NOTE
2N2242	SH	s	N	360	200	40	15	225	0.1	20	40	120	10					250		6		18	
2N2256	SH	S	N	300	175	7	7	100	3	6	17	120	10					320		4		18	
2N2273	AH	G	P	100	001	25	15	100	10	12	20	150	1	20		-			I DMHZ	3.5		18	
2N2288	AP	G	P	60W	110	40	40	IOA	200	2	20	60	5 A	25								3	
2N2291	AP	G	P	60W	110	40	30	10A	200	2	50	120	5 A	50								3	
2N2330	SC	S	N	800	150	30	20	500	l nA	4.5	50	1	10					100		10		5	
2N2357	SP	G	P	170W	110	60	30	50 A	200	2	30	90	20 A	20				1.00				41	
2N2368	SH	S	N	360	200	40	40		0.4	20	20	60	10			<u> </u>		400		4		18	
2 N2369	SH	S	N	360	200	40	40		0.4	20	40	120	10	5				1		4		18	
2 N2369A	SH	S	N	360	200	40	40	200	30	20	10	120	10			 		500		4	\vdash	18	
2 N238 I	SH	G	Р	300	100	30	15	500	1	5	40		200					300		3.5		5	
2N2410	SH	S	N	800	200	60	30	800	0.3	30	30	120	10					200		11	<u> </u>	5	
2N2411	SH	S	P	300	200	25	20	100	10 n A	25	20	60	10			_		140		5		18	
2N2415	AH	G	Р	75	100	15	10	20	I	10	10	200	2	15				500	200 MHZ 2.4	0.9	8	72	
2N2453	AM	S	N	500	200	60	30	50	0.005	50	150	600	1	150	5 K	6	5	60		8	Ť	C32C	DUAL N.I
2N2476	SH	S	N	2 W	200	60	20	30	0.2	30	20	000	150	700	311	Ť	Ť	250		10	 	5	DOME III.
2N2476	SH	S	N	1.2W	200	40	15		0.2	30	40	120	10	3	60	\vdash		1200	 -	5		18	
2N2490	SP	G	P	170W	110	70	60	15A	3 mA	40	20	40	5 A		- 60	-				_		36	
2N2501	SH	S	N	360	200	40	20	134	3 IIIA	40	50	150	10	3.5				350		4	-	18	
2N2526	SHP	G	P	85W	110	80	80	10A	3 mA	80	20	50	3 A	10			_	330		-		3	
	SH	S	- -	800	200		-	IUA	0.25	40	50	150	150	2.5				-		8		5	
2N2537		S	N		1	60	30	20	10 n A	45	-	150	10µA	60	200			20	IOKHZ	6		46	
2N2604	AH SH	-	P	400	100	60	45	30	IONA	25	40	30	_	60	200			30	4	2.5		- 17	
2N2635	-	G	<u> </u>	150	_	30	12	100	0.01	_	45	300	50	C.F.				35	IOKHZ	8	-	18 C32C	DUAL N.
2N2639	AM	S	N	300	200	45	45	30		45	50		10µA	65	1.17	-	4		1 KEZ	_		C32C	DUAL N.
2N2652	AM	S	N	300	200	100	60	500	0.01 25 n A	50	50 30	200	- 1	50	I K	200	1200	60		15 20		18	DUAL N.
2N2696 2N2708	S	S	P	360	200	25	25	500	10 n A	10		130	50	25	1500	26	1200		200 MHZ 7.5	1.5	9	72	
	AH	S	N	200 360		35 40	20	50	30 n A	15	30	200	10	30				500	7.5	4	9	18	
2N2710	SH	S	N	300	200	80	20 60	500 40	0.01	20 60	40 30	120	0.1					80		6		C32C	DUAL N.I
2N2720	AM	S	N			45	_	40						30 100		_		100	, IONHZ	6		C32C	DUAL N.
2N2722	AM	S	N	300	200		45		0.001	30	50 2 K	250	1μΑ						1 XHZ			72	DARLINGTO
2N2723	AL	\$	N	500 170W	200	80	60 5	40 50 A	0.01		_	10K	10 20 A	1500				100	10	10		C7	DAKLINGIO
2 N2728 2 N2785	SHP	G	P		110	15	_	50 A	0.05	20	40			600				4.5K*		20		72	DADI INOTO
	AL	S	N	500	175	60	40	000	0.05	30	2 K	20K	100	600				10		30		5	DARLINGTO
2 N2800 2 N2802	SH	S	Р	800	200	50	35	800	0.0	0.5	30	90	150 0.1	20				120	IOKHZ	25		C32C	DUAL P.F
	AM	S	Р	250	-	25	20	30	0.0	25	20		-	20				60	4				DUAL F.F
2 N2832	SP	G	P	85W	110	80	50	20 A	300	2	25	100	10A	2				250				3 18	
2 N2845 2 N2857	S	S	N	360	200	60	30		200	30	30	120	150					250	450 MHZ 5.8	8	4		
	AH	S	N	200	200	30	15	40	0.0	15	30	150	3	50				1000	5.8		4	72	
2 N2894	S	S	P	360	200	12	12	200	10	6	40	150	30			\vdash		400	I KEZ	6			
2 N2895	S	S	N	500	200	120	65	I A	0.002	60	40	120	150	50			-	120		15		18	DUS. #
2 N2903	AM	S	N	600	200	60	30	50	0.01	50	125	6 2 5	. 1	150	1 K	6	5	60	1 KHZ 7	8		C32C	DUAL N.
2 N2904	SH	S	P	3 W	200	60	40	600	0.02	50	40	120	150					200		đ		.5	
2N2912	SP	G	Р	75W	110	15	6	25A	10mA	15	75		10A				_	10	TKHZ			C 8	DULE: 100
2 N2913	AM	S	N	300	200	45	45	30	0.0	45	60	240	10μA					60	200 MHZ	4	25	C32C	DUAL N.I
2 N2929	AH	G	Р	750	100	25	10	001	0.15	10	10	100	10		45			1100	5.5	2.5	25	5	
2 N2944	\$C	S	Р	400	175	15	10	100	0.inA	15	80		1					15		3.2	L	46	
2 N2947	AP	S	N	25 W	175	60	60	1.5A	1	50	2.5	55	400							60		3	
2 N2949	AP	S	N	6 W	175	60	60	700	0.1	50	5	100	40							20		107	
2 N2951	AP	S	N	3 M	175	60	60	250	0.1	50	20	150	10							8		5	
2 N2955	SH	G	Р	150	100	40		100			20	60	50							2.5		18	
2 N2958	SH	S	N	3 W	200	60	20	600	0.025	50	40	120	150					250		8		5	
2 N 3 0 0 9	SH	S	N	360	200	40	15	200			30	120	30					350		5		52	
2N3010	SH	S	N	300	200	15	6	50			25	125	10					600		3		18	-
2N3011	SH	S	N	360	200	30	12	200			30	120	10					400		4		18	
2N3012	S	S	Р	360	150	12	12	200			30	120	30	4						6		18	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANY0	NOTE
2N2242	2SC 594		2SC 689H			2SC 725			
2N2256	2 SC 735	2 SC 945	2SC1204	2 SC 1209		2SC 993			
2N2273		2SA 204	2SA 212		_				
2N2288			2SB 85		-				
2N2291			2SB85						
2 N2330	2 SC 496	2SC959			2-SC 1407				
2N2357									
2N2368	2SC594	2SC764				2SC 725			
2N2369	2SC594	2SC764				2SC725			
2N2369A	2SC 594	2 S C 764				2SC 725			
2 N2381		2SA643			2SA719	2SA558			
2N24I0	2SC498	2SC 959			2SC1407				
2N2411	2SA 495	2SA711	2SA 742		_	2SA558			
2N2415						-		2SA441	
2N2453									
2N2476		2SC 266		2SC 450	•	2SC1069			
2N2481									
2N2490									
2N2501	2SC594	2SC764	2SC689H			2SC718		2SC 423	
2N2526	2SA 679						2SB519		
2N2537	2SC 498	2SC959			2SC 407				
2N2604	2SA 497	2SA579							
2N2635	2SA 599	2SA603	2SA 673				2 S A 480		1
2N2639				_					
2N2652									
2N2696		2SA643	2 S A 565		2SA719				
2N2708	2SC378		2 SC 462*		2SC563		2SC1128		
2N2710	2SC 594	2SC764	2SC 708					2SC423 ·	
2N2720							1		
2N2722									
2N2723	_						-		
2 N2728							-		
2 N2785				3.		· · · · · · · - · ·			-
2 N2 800		2SA712			2SA752				-
2 N2802				_	2077702				
2 N2832			2SB 333		2 SB430				-
2 N2845	2SC 594		20000		200400	2SC 725		-	1
2 N2857	2SC 382	2 S C 1320		2SC773		2SC724			
2 N2894	2SA 467	2SA 603		2007.0	2SA550	2 S A 559			
2 N2895					20/1000		2SC 430		
2 N2903			-				2001400		
2 N2904			-				2SA 529		
2 N29U4 2 N2912							207323	 	-
2 N2912								 	-
2 N2929									
2 N2929 2 N2944		2SA 603	2SA 565			2SA524		2SA532	
2 N2947		207,003	20,700	2 S C 688		23AJ24		2S A 532 2S D 330	-
2 N2947 2 N2949		2SD71	2SD120	2 S D 356		2SD183	-	230330	-
		23071	230120	2 30 330		230183			-
2 N2951 2 N2955		2SA 603	2SA 673	2 S A 628			2SA480		
2 N2955 2 N2958		23A 0U3	23A b/3	23A 028			23A48U		
2 N2958 2 N3009	200 504	2SC764						200422	
	2SC 594			0001040				2SC 423	
2 N3010 2 N3011	2SC 594	2SC 925 2SC 764		2SC1240				2 SC 423	
2 N3011	2SC 594 2SA 467	2SC 764 2SA 603				2SA559		250423	

	1	پا	>	MA	XIMUM	RA	TINGS						ELE	CTRICAL	L CHARA	CTERI	STICS						
TYPE	USE	ER/	POLALITY	Pc	Tj	Vos	Voeo	lc	l c	38 0		hεε		hfe	hie	hre	hoe	fr.	NE	Cob	Cox rbb	OUTLINE	NOTE
	"	MATER	ᅙ	25°C (mW)	(0)	(V)	(V)	(mA)	(μ A)	Vos(V)	min.	max.	Ic(mA)		(Ω)	(×10)	(μō)	*fae **faD	(48)	(pF)	(ps)	TO-	NOTE
2 N30 I 5	SH	s	N	800	200	60	30	ļ	200	30	30	120	150		-		<u> </u>	(MHz) 250	(/	8	()	5	
2 N3019	AH	S	N	800	200	140	80	i A	0.01	90	100	300	150	80				100	1 KHZ	12	400	5	
2 N3021	SHP	s	Р	25W	175	30	30	3 A	0.01	30	20	60	I A	2				100	-	12	400	3	
2 N3043	AM	s	N	250	200	45	45	30	0.01	45	100	300	10µA	130	3.2K		100	30	IOKHZ	8		89	DUAL N.M
2 N3049	AM	s	P	250	200	25	20	100	0.01	45	20	120	10µA	30	750K		100	60	10KHZ	8		89	DUAL P.F
2 N3053	SH	S	N	5 W	200	60	40	700	0.01		50	250	150	- 50	73010			100	6	15			DUAL 1.1
2 N3055	AP	S	N	115W	200	100	70	15A		-	20	70	4 A	15				10 K*		15		5 3	
2 N3072	S	S	P	800	200	60	60	500		-	30	130	_	15	1 51	26	1200	130		10		39	
2N3081	SH	S	P	600	200	70	50	600	10 n A	50	20	130	500	-	1.5K	20	1200	150		10		5	
2N3114	AH	S	N	800	200	150	150	200	0.01	100	30	120	30	25	30			150		13		5	
2N3120	S	S	P	800	200	45	45	500	0.01	100	30	130	50	180		20	1200	130		9		18	
2N3127	AH	G	P	100	100	30	20	50	3	10	20	75	30		1.5K	26	1200	400	200 KHZ	10	12		
2N3133	SH	S	P	600	200	50	35	600	3	10	40	120	150	.20					5	10	12	72 5	
2 N3137	AH	s	N		200	40	20	150	50	20	20	120	50					200		_		5	
2 N3209	S	S	P	600 360	200	20	20	200	30	20	30	120	30					400		3.5			
2 N32 I O	SH	S	N	360	200	40			0.01	20	30	_			-					5		18	
2N3211	SH	S	N	360	200	40	15	500	0.01	20	50	120	10	-				300	\vdash	6		18	
2 N3232	AHP	S	N	117W	200	80	15	500						1				350		4	-	18	
2N3244	SH	S	P	1 W	200	40	60 40	7.5A 1 A	0.05	30	18 50	55	3 A	1	-		<u> </u>	175		25			
2N3248	SH	S	P	360	200	15	12	1 A	0.05	30	_	150	500					175 250		25		5	
2N3250	SH	S	P	360	200	50	40	200			50 50	150	0.1	50	6 K			250	100 HZ	8	250	18	
2N3252	SH	S	N	1 W	200	60	30	200	0.5	40	30	90	10	50	O N	10	4	200	6	12	250	18 5	
2N3279	AH	G	P	100	100	30	20	50	1	10	10	70	500	10				500	200 MHZ	0.9	5	72	
2N3283	AH	G	P	100	100	25	25	50	2	10	10	70	3	10				400	2.9 200 M HZ	1	10	72	
2N3287	AH	S	P	200	200	40	20	50	0.01	15	15	100	2	15				600	200 MHZ	0.9	8	72	
2N3291	AH	S	N	200	200	25	25	50	0.01	10	10	100	2	10				800	200 MHZ	1	15	72	
2N3295	AHP	S	N	800	175	60	60	250	1.0	50	20	60	10	10_					- 6	8	13	5	
2N3296	AHP	S	N	700	175	60	60	700	0.1	50	5	50	40							20		102	
2N3297	AHP	S	N	25W	175	60	60	1. 5 A	1	50	2.5	35	400							60		3	
2N3298	AHP	S	N	ΙW	175	25	15	100	0.01	10	80	240	10							5		18	
2N3299	SH	S	N	800	200	60	30	500			40	120	150					250		8		5	
2N3303	SH	S	N	600	200	25	12	1 A			30	120	300					450		15		C94	
2N3304	S	S	P	300	200	6	6				30	120	10					500		3.5		18	
2N3307	AH	S	Р	200	200	40	35	50	0.001	15	40	250	2	40				1200	200 MHZ	- 1	15	72	,
2N3311	AP	G	Р	170W	110	30	30	5 A	5 mA	30	60	120	3 A	30				1K*				36	
2 N3323	AH	G	Р	150	100	35	35	100	0.5	10	30	200	3	30		1		600		3	100	18	
2N3375	AHP	S	N	11.6W	200	60	40	1.5A			10	100	250					500		8		60	
2N3409	AM	s	N	500	200	60	30	500	0.01	50	30	120	0.i	2.5					1 KHZ 4	8		C32C	DUAL N.N
2 N3423	AM	s	N	300	200	30	15	50	0.01	15	20	200	3		45			1200		3		C32C	DUAL N.N
2 N3425	AHP	S	N	300	200	40	15		0.025	20	30	120	10	20				300		6		C32C	DUAL N.N
2 N3427	Α	G	Р	200	100	45	30	500	3	1.5	100	350	100	200				6**	IKH∠ 5	20		5	
2 N3445	AP	S	N	115W	200	80	60	7.5A			20	60	3 A	20						260		3	
2 N3467	SH	S	Р	1 W	200	40	40	ΙA	0.1	30	40	120	500					175		25		5	
2 N3487	AP	s	N	115W	200	80	60	7.5A			20	60	3 A	20						550		61	
2N3494	АН	S	Р	600	200	80	80	100	I 00 nA	50	35		100	40	100	2	300	200	_	7		5	
2 N3498	AH	S	N	1 W	200	100	100	500	0.05	50	40	120	150	50	200	2.5	10	150		10		5	
2N3506	SH	S	N	I W	200	60	40	3 A			40	200	1.5A					60		40		5	
2 N3508	SH	S	N	400	200	40	20		0.2	20	40	120	10	5						4		46	
2 N3510	SH	S	N	360	200	40	10	500			25	150	150	3.5						4		52	
2 N3515	AM	s	N	250	175	80	40	500	0.02	60	50	200	I	50	1 K		4	50	l KEZ 8	18		89	DUAL N.M
2 N3544	AH	s	N	300	175	25	25	100	0.01	15	25		10							2.5	10	18	
2 N3546	SH	S	Р	360	200	15	12				30	120	10					700		6		18	
2 N3611	AP	G	Р	85 W	110	40	30	7 A	40	2	35	70	3 A	15								3	
2 N3615	AP	G	Р	85 W	110	80	60	7 A	60	2	30	60	3 A	15	L			0.6				3	
2 N3634	AH	S	Р	1 W	200	140	140	ΙA	100 nA	100	50	150	50	40		3	200	150	I KHZ 3	10		5	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2 N30 I 5	2 SC 495	2SC 959			2SCI407				
2 N30 19	2SC 38	2SC 960							
2 N302 I	2SB 435				2SC 449				
2 N3043									
2 N3049						_			
2 N3053	2 S C 547		2SC 708	2SC1155			2 SC 1124	2SC614	
2 N3055	2SDIII	2SD 5	2SD 341			2SD 250	2 SD 340		
2N3072		2SA 607							
2N3081		2 SA 708					2SA706		
2 N3 I I 4	2 S C 484			2SC 310					
2N3I 20	2SA 503				2SA 546	2SA 580			
2 N3 127	2SA 776A	2SA 579	2SA 673	2 S A 725			2SA705		
2N3133		2SA 607							
2 N3 I 37	2SC 497	2 SC 139	2SC 154C						
2 N3209	2SA 467	2SA 603						2SC 532	
2 N 32 I 0	2SC 504					2SC 906		2SC 423	
2 N3211	2 SC 504					2SC 906		2 SC 423	
2 N3232		2SD 151				2SD196			
2N3244		2SA 613	2SA 715		2SA 684				
2N3248	2SA 467	2SA 603			2SA 550				
2N3250	2SA 467	2SA 603			2 SA 550				
2N3252	2SC 513	2SC 959	2SC 1385						
2N3279	2SA 776A	2SA 579	2SA 673	2 S A 725			2 S A 705		
2N3283	2SA 776A	2SA 579	2SA 673	2SA725			2SA 705		
2N3287	2SA 776A	2SA 579	2SA 673	2SA725			2SA 705		
2N3291	2SC 371	2SC 606			2SC 563		2501128	_	
2N3295	2SC 501	2 SC 959							
2N3296	2SC 501	2 SC 959							
2N3297	2SC 790	2SD288	2SC 1061		2SD 317		2SD 292		
2N3298	2 SC 495	2SC 959							
2N3299	2 SC 495	2SC 959						-	
2N3303			2SC 1212A		2SC 1383				
2N3304	2SA 467	2SA 603	2 SA 530		2SA 550				
2N3307	2 SA 561		2 SA 530			2 S A 558			
2N3311	·								
2N3323			2SA 549 A	2SA 696		2SA 555			
2N3375	2SC 1196								
2N3409	-								
2 N3423									
2 N3425									
2 N3427		2SB 226				2SB 427			
2 N3445		2SD 5							
2 N3467					2SA 752				
2 N3487		2SD 5			1				
2 N3494	2SA 497								
2 N3498	2SC 497	2SC 959							
2 N3506									
2 N3508	2SC 594							2SC 423	
2 N3510	2SC 594			•				2 S C 423	
2 N3515									
2 N3544	2SC 594	,				2SC 718		2 S C 423	
2 N3546	2SA 467				2SA 550	2SA 559			
2 N36 I	2SB 530			rti.			2SB 519		
2 N3615	2SB 530						2SB 519		
2 N3634						_	2SA 762		

		بر	>	МА	XIMUM	RA	TINGS						ELE	CTRICAL	CHARA	CTERI	STICS					Q. 17:	
TYPE	USE	MATERIAL	POLALITY	Pc 25°C (mW)	Tj (°C)	Vas (V)	V ₀₈₀ (V)	Ic (mA)	Ιο (μΑ)	80 Vos(V)	min.	hre max.	Ic(mA)	hfe	hie (ℚ)	hre (×10)	hoe (µ)	f7 *fat *#faD (MHz)	NF (dB)	Cob (pF)	CoXrbb ¹ (ps)	TO-	NOTE
2 N3664	AHP	s	N	5 W	200	60	60	500		-	8	80	50			i - 1		(#112)		6		102	
2 N3712	AH	S	N	800	200	150	150	200	0.1	75	30	150	30	25				240	_	9	100	5	
2 N3713	AHP	S	N	150W	200	80	60	10A	0.1	13	25	75	1 A	2.5							100	3	
2 N3719	SHP	S	P	6 W	200	40	40	3 A	10	40	25	180	I A	2.3				60		120		5	
2 N3722	S	S	N	800	200	80	60	500		40	40	150	100			-		300		10		5	
2N3726	AM	S	Р	400	200	45	45	300	10 nA	30	135	350	100	4 20	11.5K	15	80	600	1 KHZ	8		C 654 -04	DUAL P
2N3728	AHP	S		_	200	65	40	3 A	TUTIA	30	10	150	250	420	11.3K	13	- 60	400	4	20		-04 60	DONE
2 N3734		S	N	23W	200	50	30	1.5A		-	30	120	1 A	2.5				400		9		5	
2 N3734	SH	S		20W	175	250	225	3 A	100	25.0			100	35				10		20		66	
	-	_	N P	25 W		_			100	250	40	100	250	25				3		100		66	
2 N3740	AP	S	-		200	60	60	4 A		60	30	200	30	20	500	Н	50	3			-	5	
2N3742	AH	S	N	I W	200	300	300	50	0.2	200	20	_	30			-	200			15	-	5	
2 N3743	AH	S	Р	1 W	200	300	300	50	0.3	200	25	250	_	30	1000	4	200				├	5	
2 N3762	SH	S	Р	I W	200	40	40	1.5A	100		30	120	A			-				15 50			
2 N3766	AP	S	N	20 W	175	80	60	4 A	100	80	40	160	500	40				10		50	-	66	
2 N377 I	AP	S	N	150W	200	50	40	30A	2 mA		15	60	15A	40		_		0.2	200 (6/2		_	3	
2 N3783	AH	G	Р	150	100	30	20	20	5_	10	20	200	3	20		Ш		800	200 MHZ 2.2	1	6	72	
2 N3789	AP	S	Р	150W	200	60	60	10A	L		25	90	I A					4	100257	ļ	<u> </u>	3	<u> </u>
2 N3798	Α	S	Р	360	200	60	60	50	0.01	50	150	450	0.5		3 K	25	60		100 MHZ 4	4		18	
2 N3800	Α	S	Р	250	200	60	60	50	0.01	50	150	450	0.1	150	3 K	25	60	500	100 HZ	4		71	DUAL F
2 N3804 A	AM	S	Р	250	200	60	60	50	0.01	50	150	450	0.1	600	15 K	25	60	500	180 HZ	4		7,1	DUAL P
2 N3818	AHP	S	N	25 W	175	60	60	2 A	1	50	5	50	400							40		60	
2 N3838	SH	S	N,P	250	200	60	40	600			100	300	150		1.5		50	200	I KEZ B	8		89	DUAL N
2 N3866	AHP	S	N	5 W	200	55	30	400			10	200	50					800		2		39	
2 N3883	SH	G	Р	300	100	25	15	300			30		200					300		4.5		5	
2 N3903	SH	S	N	310	135	60	40	200			50	150	10	50	500	0.1	- 1	250	1014HZ 6	4		92	-
2 N3905	SH	S	Р	310	135	40	40	200			50	150	10	50	500	0.1		200		4.5		92	-
2 N3924	AHP	S	N	7 W	200	36	18	500	100	15				50	500	10	- 1	350		12.5		102	
2 N3946	SH	S	N	360	200	60	40	200			50	150	10					250	TOKHZ 5	4	200	18	-
2 N3948	AHP	S	N	ΙW	200	36	20	400	0.1	15	15		50					700		4.5		39	
2 N3950	AHP	S	N	70W	200	65	35	3.3A	10mA									150		80		60	
2 N3959	SH	S	N	400	200	20	12				40	200	10					1000		2.5	30	18	
2 N4012	AP	s	N	11.6W	200	65	40	1.5A			4	40	ı A					500		10		60	
2 N 4015	АМ	s	Р	400	200	60	60	300	10 nA	50	135	350	1	4 20	11.5K	15.	80	600	I KHZ	8		C 654 - 04	DUAL F
2 N4048	AP	G	Р	170W	110	45	30	60 A	200	2	60	120	15A					2 K*				C7	
2 N4072	AHP	s	N	1.5W	200	40	20	100	0.1	15	10		25 A		-			550		3		18	
2 N4 123	SH	s	N	310	135	40	30	200	50 n A	20	50	150	2	50				250	10KHZ	4		92	
2 N4125	SH	s	Р	310	135	30	30	200	50 n A	20	50	150	2	50				200	IOKHZ 5	4.5	1	92	
2 N4231	AP	s	N	60 W		90	80	3 A	50	50	10	80	IA	20	1	П		4	_	200	T	66	
2 N4234	AH	s	N	200	200	30	30	3 A	100	40	30	150	250	25				3		100		5	
2 N4237	SP	s	N	360	200	40	40	I A	100	40	40	120	-10	30		\Box		2		100	 	5	
2 N4260	SH	s	P	200	200	15	15	30	-	70	30	150	10			\vdash	-	1200		2.5	35	72	
2 N4264	S	S	N	310	135	30	15	200	ļ	-	40	160	10		-	\vdash		300		4	+ "	92	
2 N4276	AP	G	P	170W	110	30	20	60 A	200	2	60	120	15A	-				2 K*		<u> </u>		3	
2 N4276 2 N4398	AP	S	P	200W	200	40	_			40	15	/60	15A	40		\vdash		2 K				3	
	_		-	_		-	40	30 A	I mA	40			15A		500	0.1	ı	200		65		92	
2 N4400	SH	S	N	310	135	60	40	600			50	150	150	20		0.1	_			8.5	\vdash	92	
2 N4402	SH	S	P	310	135	40	40	600	OF .		50	150		30	750	0.1	- 1	150		10	-		
2 N4404	A	S	Р	5 W		80	80	1 A	25 n A	60	40	120	150			<u> </u>		600			₩-	39	
2 N4406	A	S	Р	5 W		80	80	2 A	25 n A	60	30	120	500					750		15		39	
2 N4409	S	S	N	310	135	80	50	250	0.01	60	60	400	1	ļ		\sqcup		300		12		92	
2 N4427	AP	s	N	3.5W		40	20	400			10	200	100			ļ		500		4		39	
2 N4428	AP	S	N	3.5W	1	55	35	425			20	200	50				L	1000		1.2		39	
2 N4890	S	\$	P	I W	1	60	40	500	1		50	250	150					280		9	1	39	
2 N4898	AP	S	Р	25W	200	40	40	ΙA	100	40	20	100	500	25				3		100		66	
2 N490 I	AP	S	Р	87.5W	200	40	40	5 A	100	40	20	80	ΙA	20				4				3	
2 N4904	AS	S	-	87.5W	200	40	40	5 A	100	40	25	100	2.5A	40			\neg	4				3	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2 N3664	2SC 547			2SC 700	2SC 575	-		2SC 614	
2 N3712		2SC 49							
2 N3713	2SD 3	2SD 151							
2N3719	2 SB 462							,	
2 N3722	2SC 497	2SC149				2SC 233		2SC 614	
2N3726		200.40	·			_			
2N3733	2SC 789	2SC 037							
2 N3734	2SC 485	2301037				2SC916			+
	230 403					200111	2SD56		
2 N3738	00004				2SB512		20000	2SB 50 7	
2 N3740	2SB64				236312		2SC 1056	238307	
2 N3742	2 SC 996						230 1030		
2 N3743		004.610			2 S A 752				
2N3762		2SA 613			25A /52				
2 N3766			2.SC1055			000.040		サンケン	
2 N3771						2 SD 249		2SC1444	
2 N3783	- 00		*		2SA 310				_
2 N3789									-
2 N3798	2 S A 502	2SA 603	2SA 530H		2 S A 550				ļ
2 N3800							- 0		_
2 N3804 A									1
2 N3818	2SC 1077								
2 N3838									
2 N3866				2SC1155	2SC 700				
2 N3883	2SA 467	2SA 603	_						
2N3903		2SC 603							
2N3905	2SA 467	2SA 603							
2N3924		2SC 891	-		2SC 1074				
2N3946	2SC 594					2 SC 725			
2N3948	200 004	2SC 959		25C1016					
2N3950		200 333		2SC1020					
2N3959		2SC 852		200.020		2SC 10 68			
2N4012		230 832		-		2301000		 	
2N4015								-	-
2N4048					200.021	2SC854			-
2N4072				-	2SC 821				+
2N4123	2SC 594	2SC 729				2 S C 565			+
2N4125	2SA 467	2SA 603							-
2N4231			2SC 1030	ļ					
2N4234									-
2N4237									
2N4260	2SA 561		2SA 530H			2 S A 559			
2N4264	2SG 594		2SC 689						
2N4276									
2N4398									
2N4400	2SC 382			2SC 2		2SC1247 A			
2 N4402					2SA720				
2 N4404		2SA 652			2SA 547A		2SA761		
2 N4406		2SA 652			2SA 547A		2SA761		
2 N4409	2SC 511	2SC 1218							
2 N4427	2SC 1196			2SC1323	2SC 731				
2 N4427		-	+	2SC1323	2SC 731				
	2SC_1196	200,004		2301323	230 731				
2 N4890	200 425	2SB 109A			2501274	2SB42			-
2 N4898	2 SB 425	2 S B 250 A			2SB 27A	23042			
2 N4901		2SA 649			1				+
2 N4904		2SA 649			1				

TYPE	_ _	. T	MAX	IMUM	RAT	INGS						ELE	CTRICAL	CHARA	CTERIS	TICS						
2N4910 AP S N 2N4913 AP S N 2N4914 AP S N 2N4924 AH S N 2N4928 A S P 2N4926 AH S N 2N4927 AM S P 2N4937 AM S P 2N4937 AH S N 2N5031 AH S N 2N5031 AH S N 2N5050 AP S N 2N5067 AP S N 2N5068 A S P 2N5088 A S P 2N5090 AHP S N 2N5190 AHP S N 2N5195 AHP S N 2N5195 AHP S P 2N5199 AP S N 2N	TERIA		Pc 25°C	Υj	Vas	V ₀₆₀	lc	1 c	80		hre		hfe	hie	hre	hoe	ft *fae *#fa0	NF	Cob	Cox rbb'	OUTLINE	NOTE
2N4913 AP S N 2N4918 AP S N 2N4921 AP S N 2N4924 AH S N 2N4928 A S P 2N4937 AM S P 2N4937 AM S P 2N4937 AH S N 2N5016 AH S N 2N5013 AH S N 2N5050 AP S N 2N5067 AP S N 2N5068 A S N 2N5088 A S N 2N5089 AHP S N 2N5199 AHP S N 2N5199 AHP S N 2N5199 AHP S N 2N5199 AP S N 2N5199 AP S N 2N	POL	2 (m₩)	(7)	(V)	(V)	(mA)	(μ A)	Vos(V)	min.	max.	Ic(mA)		(<u>Q</u>)	(×10)	(µ ন)	**tao (MHz)	(dB)	(pF)	(ps)	TO-	
2 N4918 AP S P 2 N4924 AH S N 2 N4926 AH S N 2 N4926 AH S P 2 N4926 AH S P 2 N4927 AM S P 2 N4957 A S P 2 N4957 A S P 2 N5031 AH S N 2 N50516 AH S N 2 N50516 AH S N 2 N5067 AH S N 2 N5068 A S N 2 N5088 A S N 2 N5088 A S N 2 N5089 AH S P 2 N5088 AH S P 2 N5089 AH S P 2 N5193 AH S P 2 N5193 AH S P <tr< td=""><td>SN</td><td>1 2</td><td>5W 2</td><td>200</td><td>40</td><td>40</td><td>ΙA</td><td>100</td><td>40</td><td>20</td><td>100</td><td>500</td><td>25</td><td></td><td></td><td></td><td>3</td><td></td><td>100</td><td></td><td>66</td><td></td></tr<>	SN	1 2	5W 2	200	40	40	ΙA	100	40	20	100	500	25				3		100		66	
2 N4921 AP S N 2 N4926 AH S N 2 N4926 AH S N 2 N4928 A S P 2 N4937 A S P 2 N4937 A S P 2 N4937 A S P 2 N5050 AP S N 2 N5160 APP S N 2 N5193 AP S N 2 N5193 AP S N 2 N5209 A S N <trr< td=""><td>SN</td><td>N 87</td><td>.5W 2</td><td>200</td><td>40</td><td>40</td><td>5 A</td><td>1 mA</td><td></td><td>25</td><td>100</td><td>2.5A</td><td>20</td><td></td><td></td><td></td><td>4</td><td></td><td></td><td></td><td>3</td><td></td></trr<>	SN	N 87	.5W 2	200	40	40	5 A	1 mA		25	100	2.5A	20				4				3	
2 N4924 AH S N 2 N4928 A S P 2 N4937 AH S P 2 N4937 AL S P 2 N4937 AL S P 2 N4937 AL S N 2 N5016 AHP S N 2 N5050 AP S N 2 N5067 AP S N 2 N5067 AP S N 2 N5068 A S P 2 N5086 A S N 2 N5088 A S N 2 N5090 AHP S N 2 N5160 AHP S N 2 N5160 AHP S P 2 N5160 AHP S P 2 N5179 AP S N 2 N5190 AP S N 2 N5193 AP S N		3	0 W	150	40	40	ΙA	100	40	20	100	500	25				3		100	L	C77	
2N4926 AH S N 2N4937 AM S P 2N4937 A S P 2N4957 A S P 2N5016 AHP S N 2N5031 AH S N 2N5050 AP S N 2N5066 AP S N 2N5088 A S N 2N5090 AHP S N 2N5198 AHP S N 2N5198 AHP S P 2N5199 AHP S P 2N5199 AHP S P 2N5293 AHP S P	_	1 3	-	150	40	40	I A	100	40	20	100	500	25				3		100		C77	
2 N4928 A S P 2 N4937 AM S P 2 N4937 A S P 2 N4974 AL S N 2 N5016 AHP S N 2 N5031 AHP S N 2 N5067 AP S N 2 N5068 A S N 2 N5088 A S N 2 N5088 A S N 2 N5089 AHP S N 2 N5108 AHP S P 2 N5108 AHP S P 2 N5109 AHP S N 2 N5190 AHP S N 2 N5193 AP S P 2 N5193 AP S P 2 N5203 AHP S P 2 N5203 AHP S N 2 N5223 AHP S N	SN	_		175	100	100	200	0.1	50	40	200	150					500		10		39	
2 N4937 AM S P 2 N4957 A S P 2 N4957 A S P 2 N5031 AH S N 2 N5030 AH S N 2 N5067 AP S N 2 N5067 AHP S N 2 N5088 A S N 2 N5088 A S N 2 N5088 A S N 2 N5099 AHP S P 2 N5108 AHP S P 2 N5109 AHP S P 2 N5109 AHP S P 2 N5109 AHP S P 2 N5199 AHP S P 2 N5199 AHP S P 2 N5209 A S P 2 N5209 A S P 2 N5229 A S N				175	200	200	50	0.1		20	200	30	25	75K	0.1	5	300		6		39	
2 N4957 A S P 2 N4974 AL S P 2 N5051 AHP S N 2 N5050 AP S N 2 N5050 AP S N 2 N5050 AP S N 2 N5050 APP S N 2 N5150 APP S P 2 N5160 APP S P 2 N5160 APP S N 2 N5193 AP S N 2 N5193 AP S N 2 N5299 A S N 2 N5290 A S N 2 N5293 A S N 2 N5229 A S N 2 N5229 A S N	$\overline{}$		3 W		100	100	100	0.5		25	200	10					1000		6		39	
2 N4974 AL S P 2 N5016 AHP S N 2 N5030 AH S N 2 N50507 AP S N 2 N50667 AP S N 2 N50508 A S P 2 N5090 AHP S N 2 N5090 AHP S N 2 N5195 SP G P 2 N5160 AHP S N 2 N5190 AHP S N 2 N5193 AP S N 2 N5219 AH S P 2 N5219 AH S N 2 N5219 AH S N 2 N5219 AH S N 2 N5229 AH S N		-		200	50	40	50	2 nA	40	50	250		50	4 K	3	15	400	IOKHZ 4	3		C32	DUAL P
2N5016 AHP S N 2N5031 AH S N 2N5050 AP S N 2N5067 AP S N 2N5068 A S P 2N5088 A S N 2N5090 AHP S N 2N51505 SP P 2N5160 AHP S N 2N5155 SP Q P 2N5160 AHP S N 2N5179 AH S N 2N5193 AP S N 2N5219 AP S N 2N5220 A S N 2N5221 A S N 2N5222 A S N 2N5223 A S N 2N5223 A S N 2N5223 A S N 2N5224 S		+		200	30	30	30	0.1	20	20	40	2					1600	450 MHZ 2.6		8	72	
2 N5031 AH S N 2 N5050 AP S N 2 N5066 AP S N 2 N5066 A S P 2 N5086 A S N 2 N5088 A S N 2 N5090 AHP S N 2 N5108 AHP S P 2 N5108 AHP S P 2 N5160 AHP S P 2 N5179 AH S N 2 N5190 AP S N 2 N5193 AP S P 2 N5209 A S N 2 N5229 A S N 2 N5221 A S N 2 N5222 A S N	_	_	800 2	200	40	30	I A			5 K	9 K	IμA	2500				2.75	10KHZ 3	4		12	DARLINGT
2 N5050 AP S N 2 N5067 AP S N 2 N5066 A S P 2 N5086 A S N 2 N5088 A S N 2 N5099 AHP S N 2 N5108 AHP S P 2 N5155 SP G P 2 N5160 AHP S N 2 N5179 AH S N 2 N5209 AP S N 2 N5209 A S N 2 N5221 A S N 2 N5222 A S N 2 N5223 A S N 2 N5225 A S P	\rightarrow	-			65	30	4.5A		<u></u>	10	200	500					500	45018/7	20	<u> </u>	60	
2 N5067		+	200		15	10	20	∣ n A	<u> </u>	25	300	1			\sqcup		3500	450 MHZ 2.5	1.3	5	72	
2N5070 AHP S N 2N5086 A S P 2N5088 A S N 2N5090 AHP S N 2N5168 AHP S P 2N5155 SP G P 2N5160 AHP S P 2N5179 AH S N 2N5193 AP S N 2N5208 AH S P 2N5209 A S N 2N5209 A S N 2N5220 A S N 2N5221 A S N 2N5222 A S N 2N5223 A S N 2N5224 SH S N 2N5225 A S N 2N5222 A S N 2N5223 A S N 2N5224 <td></td> <td>-</td> <td></td> <td>200</td> <td></td> <td>120</td> <td>2 A</td> <td></td> <td></td> <td>35</td> <td>105</td> <td>500</td> <td>25</td> <td></td> <td></td> <td></td> <td>10</td> <td></td> <td>250</td> <td></td> <td>66</td> <td>_</td>		-		200		120	2 A			35	105	500	25				10		250		66	_
2 N5086 A S P 2 N5088 A S N 2 N5090 AHP S N 2 N5165 AHP S P 2 N5165 AHP S P 2 N5160 AHP S P 2 N5161 AHP S N 2 N5179 AH S N 2 N5193 AP S P 2 N5203 AH S P 2 N5203 AH S P 2 N5203 A S N 2 N5221 A S N 2 N5222 A S N 2 N5223 A S N 2 N5224 SH S P 2 N5225 A S P 2 N5224 SH S P 2 N5225 A S P 2 N5227 A S P		_	_	200	40	40	5 A	l mA	40	20	80	I A	20				4			_	3	
2 N5088 A S N 2 N5090 AHP S N 2 N5108 AHP S P 2 N5155 SP G P 2 N5160 AHP S P 2 N5179 AH S N 2 N5199 AP S N 2 N5208 AH S N 2 N5209 A S N 2 N5209 A S N 2 N5229 A S N 2 N5221 A S N 2 N5222 A S N 2 N5223 A S N 2 N5223 A S N 2 N5224 SH S P 2 N5225 A S P 2 N5228 A S P 2 N5229 SC S P 2 N5229 SC S P	\rightarrow	_	0 W		65	30	3.3A	10mA		10	100	3 A					100	1 1/1/2	85		60	
2 N5090 AHP S N 2 N5108 AHP S N 2 N5155 SP G P 2 N5160 AHP S P 2 N5161 AHP S N 2 N5179 AH S N 2 N5190 AP S P 2 N5209 A S N 2 N5209 A S N 2 N5219 A S N 2 N5220 A S N 2 N5221 A S N 2 N5222 A S N 2 N5223 A S P 2 N5224 SH S P 2 N5225 A S P 2 N5226 A S P	\rightarrow	-	_	135	50	50	50	10 n A	10	150	500	0.1	150				120	1 KH2 3	4		92	
2 NS108 AHP S N 2 NS155 SP G P 2 NS160 AHP S P 2 NS161 AHP S P 2 NS190 AP S N 2 NS193 AP S P 2 NS208 AH S P 2 NS209 A S N 2 NS220 A S N 2 NS221 A S N 2 NS222 A S N 2 NS223 A S N 2 NS225 A S N 2 NS227 A S P 2 NS228 SH S P 2 NS227 A S P 2 NS334 SP G P		-		135	35	30	50	50 n A	20	300	900	0.1	350				175	10KHZ 3			92	
2 NS155 SP G P 2 NS160 AHP S P 2 NS161 AHP S P 2 NS179 AH S N 2 NS199 AP S N 2 NS208 AH S P 2 NS209 A S N 2 NS221 A S N 2 NS2221 A S N 2 NS2221 A S N 2 NS2224 AH S N 2 NS2225 A S N 2 NS2224 AH S N 2 NS2225 A S N 2 NS2224 AH S N 2 NS2256 A S N 2 NS227 A S P 2 NS229 SC S P 2 NS229 SC S P 2 NS324 SP G P				200	55	30	400			10	200	50					500		3.5	_	60	
2NS160 AHP S P 2NS161 AHP S P 2NS179 AH S N 2NS190 AP S N 2NS193 AP S P 2N5209 A S N 2N5219 A S N 2N5221 A S N 2N5222 A S N 2N5223 A S N 2N5223 A S N 2N5223 A S N 2N5224 SH S N 2N5225 A S N 2N5226 A S P 2N5227 A S P 2N5229 SC S P 2N53224 SP G P 2N53324 SP G P 2N53324 SP S N 2N53334<			.5W		55	55	400										1200		1.3		39	
2NS161 AHP S P 2NS179 AH S N 2NS199 AP S N 2NS193 AP S P 2NS209 A S N 2NS219 A S N 2NS221 A S N 2NS222 A S N 2NS222 A S N 2NS223 A S N 2NS224 SH S N 2NS225 A S N 2NS226 A S P 2NS227 A S P 2NS228 SC S P 2NS229 SC S P 2NS332 SH S P 2NS334 SP S N 2NS334 SP S N 2NS334 SP S N 2NS336	-	-	_	110	140	120	15A	200	2		100	8 A				* 1	100				3	
2N5179 AH S N 2N5190 AP S N 2N5193 AP S P 2N5208 AH S P 2N5209 A S N 2N5219 A S N 2N5220 A S N 2N5221 A S N 2N5222 A S N 2N5223 A S N 2N5224 SH S N 2N5225 A S P 2N5227 A S P 2N5228 SH S P 2N5227 A S P 2N5228 SH S P 2N5229 SC S P 2N5232 SH S P 2N5232 SH S P 2N5334 SP S N 2N5334		-	5 W		60	40	400	-	28	10		50					9 00				39	
2 N5190			0 W		60	40	1.5A	100	28	10		250					500	2001017	10		60	
2N5193 AP S P 2N5208 AH S P 2N5209 A S N 2N5219 A S N 2N5211 A S P 2N5221 A S N 2N5222 A S N 2N5222 A S N 2N5223 A S N 2N5224 SH S P 2N5226 A S P 2N5226 A S P 2N5227 A S P 2N5227 A S P 2N5227 A S P 2N5228 SH S P 2N5229 SC S P 2N5227 A S P 2N5228 SH S P 2N5229 SC S P 2N5227 A S P 2N5228 SH S P 2N5229 SC S P 2N5322 SH S P 2N5324 SP S P 2N5334 SP S N 2N5334 SP S N 2N5336 SP S N 2N5336 SP S N 2N5336 SP S N 2N5336 SP S N 2N5336 SP S N 2N5336 SP S N 2N5337 SP S P 2N5334 SP S N 2N5336 SP S N 2N5337 SP S N 2N5337 SP S N 2N5337 SP S P 2N5346 SP S N 2N5357 SP S P 2N54547 SP S N 2N54547 SP S N 2N54547 SP S N 2N54547 SP S N 2N54547 SP S N 2N54547 SP S N 2N54547 SP S N		_	200		20	12	50	0.02	15	25	250	3	25				2000	200 MHZ 4.5		3	72	
2 N5208 AH S P 2 N5209 A S N 2 N5219 A S N 2 N5221 A S P 2 N5221 A S P 2 N5222 A S N 2 N5223 A S N 2 N5224 SH S N 2 N5225 A S P 2 N5227 A S P 2 N5227 A S P 2 N5227 A S P 2 N5228 SH S P 2 N5229 SC S P 2 N5229 SC S P 2 N53324 SP G P 2 N53324 SP S N 2 N53334 SP S N 2 N53344 SP S P 2 N5427 SP S N	\rightarrow	_	_	150	40	40	4 A	100	40	25		1.5A					2				C77-1	
2 N5209 A S N 2 N5219 A S N 2 N5221 A S P 2 N5222 A S N 2 N5223 A S N 2 N5223 A S N 2 N5224 SH S N 2 N5225 A S P 2 N5226 A S P 2 N5227 A S P 2 N5229 SC S P 2 N5322 SH S P 2 N5332 SH S P 2 N5334 SP S N 2 N5334 SP S N 2 N5334 SP S P 2 N5334 SP S P	$\overline{}$	_	_	150	40	40	4 A	100	40	25	100	1.5A					2	1004817			C77-I	
2N5219 A S N 2N5221 A S P 2N5222 A S N 2N5222 A S N 2N5224 SH S N 2N5225 A S P 2N5226 A S P 2N5227 A S P 2N5227 A S P 2N5227 A S P 2N5227 A S P 2N5228 SH S P 2N5228 SH S P 2N5321 AP S N 2N5324 SP G P 2N5331 AP S N 2N5324 SP G P 2N5334 SP S N 2N5334 SP S N 2N5334 SP S N 2N5334 SP S N 2N5334 SP S N 2N5336 SP S N 2N5336 SP S N 2N5336 SP S N 2N5336 SP S N 2N5357 SP S P 2N536 SP S N 2N5357 SP S P 2N5407 SP S N 2N5407 SP S N 2N5407 SP S N 2N5407 SP S N 2N5407 SP S N 2N5407 SP S N 2N5407 SP S N 2N5407 SP S N	\rightarrow	+	310		30	25	50	10 n A	10	20	120	2			-		1200	100 MHZ 3 1 KHZ		10	92	
2N5220 A S N 2N5221 A S N 2N5222 A S N 2N5223 A S N 2N5225 A S N 2N5225 A S N 2N5226 A S P 2N5227 A S P 2N5227 A S P 2N5228 SH S P 2N5229 SC S P 2N5301 AP S N 2N5324 SP G P 2N5332 SH S P 2N5334 SP S N 2N5334 SP S N 2N5334 SP S N 2N5334 SP S N 2N5336 SP S N 2N5336 SP S N 2N5336 SP S N 2N5336 SP S N 2N5336 SP S N 2N5337 SP S N 2N5336 SP S N 2N5337 SP S N 2N5357 SP S P 2N5346 SP S P 2N5347 SP S P 2N5477 SP S N 2N54577 SP S N	\rightarrow	\rightarrow	310	_	50	50	50	10 n A	10	100	300	0.1	150		\sqcup		80	3			92	
2 N5221	-		310	_	20	15	100	0.1	10	35	500	2	35				150				92	
2N5222		_	310	_	15	15	500	0.1	10	30	600	50	30		\vdash		100				92	
2 N5223	\rightarrow	-	310		15	15	500	0,1	10	30	600	50	30				100				92	
2N5224 SH S N 2N5225 A S N 2N5226 A S P 2N5227 A S P 2N5228 SH S P 2N5229 SC S P 2N5324 SP G P 2N5332 SH S P 2N5334 SP S N 2N5335 SP S P 2N5336 SP S N 2N5337 SP S P 2N5427 SP S N 2N5427 SP S N 2N5427 SP S N 2N5477	\rightarrow	_	310	_	20	15	50	0.1	10	20	1500	4	20				450				92	
2N5225 A S N 2N5227 A S P 2N5227 A S P 2N5228 SH S P 2N5324 SP G P 2N5332 SH S P S N 2N5334 SP S N 2N5346 SP S N 2N5346 SP S N 2N5346 SP S N 2N5357 SP S N 2N5357 SP S N 2N5357 SP S N 2N5357 SP S N 2N5357 SP S N 2N5357 SP S N 2N5357 SP S N 2N5357 SP S N 2N5457 SP S N 2N5550 A S N		-	310	_	25	20	100	0.1	10	50	800	2	50				150				92	
2N5226 A S P 2N5227 A S P 2N5228 SH S P 2N5229 SC S P 2N5301 AP S N 2N5324 SP G P 2N5332 SH S P 2N5334 SP S N 2N5334 SP S N 2N5334 SP S N 2N5336 SP S N 2N5346 SP S N 2N5357 SP S P 2N5400 A S P 2N5407 SP S N 2N5427 SP S N 2N5477 SP S N 2N5550 A S N		_	310		25	12	500	0.5	15	40	400	10					250 50				92	
2N5227 A S P 2N5228 SH S P 2N5229 SC S P 2N5324 SP G P 2N5332 SH S P 2N5332 SH S P 2N5336 SP S N 2N5346 SP S N 2N5346 SP S N 2N5357 SP S P 2N5477 SP S N 2N54343 SP G P 2N5437 SP S N 2N5437 SP S N 2N5437 SP S N 2N5437 SP S N		_	310	-	25	25	500	0.3	15	30	600	50	30								92 92	
2N5228 SH S P 2N5229 SC S P 2N5301 AP S N 2N5324 SP G P 2N5332 SH S P 2N5334 SP S N 2N5336 SP S N 2N5344 SP S P 2N5357 SP S P 2N5427 SP S N 2N5427 SP S N 2N5477 SP S N 2N5550 A S N		—	310	4	25	25	500	0.3	15	00	600	50	30				50 100					
2N5229 SC S P 2N5301 AP S N 2N5324 SP G P 2N5332 SH S P 2N5334 SP S N 2N5336 SP S N 2N5344 SP S P 2N5346 SP S N 2N5357 SP S P 2N5400 A S P 2N5427 SP S N 2N5435 SP G P 2N5477 SP S N 2N5550 A S N		_	310	_	30	30	50	0.1	10	50	700	2	50								92	
2N5301		_	3+0	-+	5	5	50	1 - 6		30		100.4			\vdash		300				92	
2N5324 SP G P 2N5332 SH S P 2N5334 SP S N 2N5336 SP S N 2N5336 SP S N 2N5346 SP S N 2N5357 SP S P 2N5400 A S P 2N5427 SP S N 2N5437 SP G N 2N5437 SP G N 2N5437 SP S N 2N5437 SP S N 2N5550 A S N		—	2 W	200	15	10	50	InA	40	50		100µA	2								46	_
2N5332 SH S P 2N5334 SP S N 2N5336 SP S N 2N5344 SP S P 2N5346 SP S N 2N5357 SP S P 2N5400 A S P 2N5427 SP S N 2N5435 SP G P 2N5477 SP S N 2N5550 A S N	\rightarrow	$\overline{}$		200	40 250	40	30 A	l mA	40	15	60	15A	40		 		2				3	
2N5334 SP S N 2N5336 SP S N 2N5344 SP S P 2N5346 SP S N 2N5357 SP S P 2N5400 A S P 2N5407 SP S N 2N5435 SP G P 2N5477 SP S N 2N5435 SP G P 2N5477 SP S N 2N5450 A S N			_	110	250	150	10A	10 5 4		20	60	5 A					2				3 46	
2N5336 SP S N 2N5344 SP S P 2N5346 SP S N 2N5357 SP S P 2N5400 A S P 2N5427 SP S N 2N5435 SP G P 2N5477 SP S N 2N54550 A S N	\rightarrow	_	60	200				10 n A		20	80	1					600		76		46 39	
2N5344 SP S P S N 2N5346 SP S P S P S P S P S P S P S P S P S P	\rightarrow		-	200	60	60	3 A	5 10	60	30	150	I A			\vdash		40		75	-	39	•
2N5346 SP S N 2N5357 SP S P 2N5400 A S P 2N5427 SP S N 2N5435 SP G P 2N5477 SP S N 2N5550 A S N		_	_	_	80	80	5 A		80	30	120	2 A			\vdash		30		250			_
2N5357 SP S P 2N5400 A S P 2N5427 SP S N 2N5435 SP G P 2N5477 SP S N 2N5550 A S N		+		200	250	250	1 A	100	250	25	100	500					60 30		200		66	
2N5400 A S P 2N5427 SP S N 2N5435 SP G P 2N5477 SP S N 2N5550 A S N	_	-	-	200	80	80	7 A	10	80	30	120	2 A			\vdash				250		59	
2N5427 SP S N 2N5435 SP G P 2N5477 SP S N 2N5550 A S N	\rightarrow	_	_	200	300	300	3 A	0.1	, 00	25	100	500					50	INKHZ	60		37	
2N5435 SP G P 2N5477 SP S N 2N5550 A S N	-	-	510	200	130	120 80	600	0.1	100	40	180	10	30				400	10KHZ 8	6	_	92	
2N5477 SP S N 2N5550 A S N	\rightarrow	_	_	200	-	60	7 A	10	80	30	120	2 A			\vdash		30		250		66	
2N5550 A S N	\rightarrow			110	80		60 A	200	2	20	60	25 A		- :	\vdash		0.35		25.2		3	
	\rightarrow	-		200	80	80	7 A	10	80	30	120	2 A					30	IOKHZ	250		59	
		_	110		160	140	600	0.1	100	60	250	10	50		\vdash		300	10KHZ 10	6		92	
	_	_	2 W	_	75	40		0.01	60	40	120	150	30	١K	5	3	250			150	46	
2N5583 SH S N		-	5 W		30	30	500	50 n A	20	25	100	100					1300			8	39	
2N5629 AP S N 2N5632 AP S N	SINI	_		200	100	100	16A 10A	l mA	100	25 25	100	8 A	15				ł		500 300		3	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	. SANYO	NOTE
	Toomba								
2 N4910					2SD317				
2 N4913		2SD322							-
2 N4918		2 SB 250 A			2SB127A	2SB 42		2SB216	
2 N492 I					2SD 317				
2 N4924	2SC1382						2SC1124	2SC 614	
2 N4926	2SC996		2 S C 685 A				2SC 1127		
2 N4928									
2 N4937									
2 N4957	2SA 561	2SA711	2 S A 530 H						
2 N4974									
2N5016									
2 N503 I	2SC1193	2SC 270				2SC1460			
2 N5050	2SD119				2SD 12	2SD175		2SD 67	
2 N5067		2SD 151	2 SD 125 A			2SD 53			
2N5070		2SC 1037							
2 N5086	2SA502	2SA 675		2SA668					
2 N5088	2SC 734				2SC538A	2SC 964			
2 N5090									
2 N5 108				2 SC 1323	2 SC 731	2SC1068			
2 N5 155									
2 N5 160									
2 N 5 1 6 1									
2 N5 1 79		2SC1424							
2 N5 190								2SD315	
2 N5 193							2SB 518	2 SB 509	
2 N5 208	2SA 561	2SA 711				2SA 559			
2 N5209	2SC 734				2SC538A			2SC1210	
2 N5219	2SC 734				2SC 538A	2SC 964		2SC 1210	
2 N5220	2 S C 498			2SC1209	2SC 383				
2 N5221		2SA 643			2SA 719				
2 N5222	2SC 734				2SC 538A	2SC 964		2SC1210	
2 N5223	2 SC 734				2SC 538A	2SC 964		2SC1210	
2N5 224	2 S C 735			2SC1209	2SC 538A			2SC 933	
2N5225	2SC 498			2 SC 1209	2SC1383				
2N5226		2SA 643			2SA719				
2N5227	2SA 561	2SA 711				2SA 558		-	
2N5228	2 S A 56 I	2SA 711				2SA 558			T
2N5229									
2N5301									
2N5324						-		2SB 491	
2N5332		2SA7I0	2SA 742H	·		2SA 558	1		
2N5334		2SD155	2SC 1060		2SD 226B	2 SD 148	2SD 28		
2N5336		2SD283					1.		
2N5344							İ	1	1 -
2N5346	2SD371	2SD 188					2 S D 338		
2N5357			1					2SB412	
2N5400		2SA 712							
2N5427	2SD 119				2SD 189 A	-			
2N5435	202 110		-						
2N5477	2SD 371	2SD+88					2SD 338	1	
2N5550	2SC 510	202,00	<u> </u>				255 555	<u> </u>	
2N5581	200010						 	<u> </u>	
2 N5583	S.	2SC1333				2SC1355	 	 	
2 N 5 6 2 9		2001000	1				1	 	
2 N 5 6 3 2			-				2SD 340		-

		ير	>	M/	AXIMUM	RA	TINGS	_		_	_		ELI	ECTRICA	L CHAR	ACTERI	STICS					Τ	
TYPE	USE	MATERIAL	POLALITY	Pc	Tj	Vos	V cen	lc	10	80	Г	hre		hie	hie	hre	hoe	fr	NF	Cob	Coxrbb	OUTLINE	NOTE
		N.	POL	25°C (mW)	(3)	(V)	(V)	(mA)	(µA)	Vos(V)	min.	-	Ic (mA)		(Ω)	(×10)		*fae **fab (MHz)	(dB)	(pF)	(ps)	TO-	NOIL
2 N 5 6 5 5	AP	s	N	20W	150	275	250	500	10	275	30	250	100	20				10		25		C77-02	
2 N 5 6 7 9	AP	S	P	10W	200	100	100	I A	Т	100	40	150	250	40				30		50		5	
2 N 5 6 8 1	AP	S		10W	200	100	100	I A	1	100	40	150	250	40				30		50		- 5	
2 N 5 6 8 3	AP	S	_	300 W	200	60	60	50 A	2 mA	60	15	60	25A	15				2		2000		3	
2 N5685	AP	S	-	300 W	200	60	60	50 A	2 mA	60	15	60	25 A	15				2		1200		3	
2 N 5 6 9 2	AP	G		125 W	110	50	30	40 A	200	2	20	65	25 A					0.2				3	
2N5763 2N5793	SP	S	P	400 500	-	65	60	600	10 n A	50	70		10	<u> </u>		ļ		200		8		18	
2N5795	SH	S	P	500		75	40 60	600	10 nA	50	40	120	150			_		250				C 654 -04	DUAL N.
2 N5829	AH	S	_	200	125	60 30	30	600 30	20 n A	50 20	40 20	120	150	20	-	-		200	450 MHZ 2,3	8 -		C 654 04	DUAL P.
2 N5835	SH	S	_	200	125	5	10	15	0.01	7.5	25	130	10	20	-	-		1600 2.5G	2.3		8 5	7 2 46	
2 N 5 8 4 I	SH	S	N	350	123	20	10	100	0.02	10	25	200	25		-	-		2.6G			18	72	
2N5843	AM	S	Р	300		50	40	50	0.01	50	50	150	0.1	200	6 K	10	40	200	1 KHZ 6		10	C 654 -84	DUAL P.
2 N 5 8 4 5	SH	S	N	500		50	40	600	0.5	40	25	150	500			1.0	70	200	ь	9	 	92	DOME 1
2N5851	S	S	N	500		30	15	100	T	15	40		10					850	200 MHZ 2.5		10	72	
2N5864	S	S	Р	1.25W		90	70	1.5A	0.5	45	50	500	150	50	200	5	10	50	2.5			39	
2 N5865	S	S	Р	1.25W	7 W	70	50	A	0.2	35	40	200	150					100				39	
2N5867	AP	S	$\overline{}$	87.5W	200	60	60	3 A	100	60	20	100	1.5A	20				4		200		3	
2N5871	AP	S	Р	100W	200	60	60	5 A	250	60	20	100	2.5A	20				4		300		3	
2N5875	AP	S	Р	150W	200	60	60	8 A	500	60	20	100	4 A	20				4		500		3	
2N5879	AP	S	Р	160 W	200	60	60	12 A	500	60	20	100	6 A	20				4		600		3	
2N5883	AP	S	Р	200W	200	60	60	20 A	I mA	60	20	100	IOA	20				4		800		3	
2N5943	A	S	N	3.5W		40	30	400	100	15	25	300	50	25				1350	200 MHZ 3.4		5.5	39	
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	\neg	+	+			\dashv	+			\dashv	\dashv	\dashv	-			\dashv				-		.	
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TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANY0	NOTE
2 N 5 6 5 5					2SD198	2SD 159	-		
2 N 5 6 7 9			2SA566H	2SA 698					
2 N 5 6 8 I							2SC 1124	2SC 614.	
2 N 5 6 8 3									
2 N 5 6 8 5					`				
2 N 5692							004 705		
2N5763	2SA 503	2SA 571					2SA 706		
2 N 5 7 9 3									
2N5795		_			-				
2 N 5 8 2 9		0001370		-		2SC1460			
2 N 5835 2 N 584 I	2501193	2SC1270			-	2SC 1459			
2N5843		-	-	-					
2 N 5845	2SC 109A	2SC 97A			_	2SC1150			
2N5851	2SC 166	2SC1330		2SC1210					
2 N5864	2001100	201000					2SA 762		
2N5865					2SA 752		2SA762		
2N5867	-						2SB 518		
2N5871							2SB519		
2N5875							2 SB 520		
2N5879	-			0.					
2N5883									
2N5943			_						
									
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TYPE	USE	MATERIAL	POLALITY	Pc	Tj	Vos	VCEO	lc	læ	0		hre		hfe	hie	hre	hoe	fτ ≠fαe	NF	Cob	Coxrbb'	OUTLINE	NOTE
		MAŢ	Pol	25°C (m\)	(°C)	(v)	(V)	(mA)	(μ A)	Vos(V)	min.	max.	lc(mA)	""	(Ω)	$(\times \bar{10})$		**fab (MHz)	(d8)	(pF)	(ps)	TO.	
2N176	AH	G	Р	10W							65							(11112)				3	
2N217	Α	G	P	160		35					50												
2N274	AH	G	P	120		40																44	
2N301	AP	G	P	30W		60					50	165											-
2N301A	AP	G	P	30W		80					50	165											
2N351	AP	G	Р	IOW		40					65					_						3	
2N376	AP	G	P	10W		40			-		78											3	
2N404	S	G	Р	150		25					20							4				5	
2N414	АН	G	Р	150	Ε.	30												8				5	
2N697	S	S	N	2W	175	60	40	500	0.01	30	40	120	150					100		20		5	
2N699	S	s	N	2W	175	120	80		2	25	40	120	150	45						20		5	
2N718A	АН	S	N	1.8W		75					40	120										18	
2N720	АН	S	N	1.8W		120					40	120										18	
2N1066	ΑH	G	Р	120		40																33	
2N1183	SP	G	Р	iw		45					20											8	
2N1183A	SP	G	Р	IW		60					20											8	
2N1183B	SP	G	Р	IW		80					20											8	
2N1184	SP	G	Р	IW		45					40											8	
2N1184A	SP	G	Р	IW		60					40											8	
2N1184B	SP	G	Р	IW:		80					40											8	
2N1224	SH	G	Р	120		40																33	
2N1225	AH	G	Р	120		40					-											33	
2N1226	АН	G	Р	120		60														- 1		33	
2N1285	АН	G	Р	120		40					30	100										33	
2N1395	АН	G	Р	120		40																33	
2N1396	АН	G	Р	120		40																33	-
2N1397	АН	G	Р	120		40																33	
2N1479	SP	S	N	5W	200	60	40	1.5A	10	30	20	60	200					9		150		5	
2N1480	SP	S	N	5W	200	100	55	1.5A	10	30	20		200							150		5	
2N1481	SP	S	N	5W	200	60	40	1.5A	10	30	35	100	200							150		5	
2N1482	SP	S	N	5W	200	100	55	1.5A	10	30	35	100	200							150		5	
2N1483	SP	S	N	25W	200	60	40	3A	15.	30	20	60	750							175		8	
2N1484	SP	S	N	25W	200	100	55	3A	15	30	20	60	750							175		8	
2N1485	SP	S	N	25W	200	60	40	3A	15	30	35	100	750							175		8	
2N1486	SP	S	N	25W	200	100	55	3A	15	30	35	100	750							175		8	
2N1487	SP	S	N	75W	200	60	40	6A	25	30	15	45	1.5A							200		3	
2N1488	SP	S	Ν	75W	200	100	55	6A	25	30	15	45	1.5A							200		3	
2N1489	SP	S	N	75W	200	60	40	6A	25	30	25	75	1.5A							200		3	
2N1490	SP	S	N	75W	200	100	55	6A	25	30	25	75	1.5A							200		3	
2N1613	S	S	N	3W	200	75	50	IΑ	0.01	60	20		0.1	100		L			I KHZ I2	25		5	
2N1683	SH	G	Ρ	150		13					85							50				5	
2N1700	S	S	N	5W	200	60	40	1 A	75	30	20	80	100									5	
2N1701	S	S	N	25W	200	60	40	2.5A	100	30	20	80	300									8	
2N1702	S	S	N	75W	200	60	40	5A	200	30	15	60	800									- 3	
2N1711	S	S	N	3W	200	75	50	IΑ	0.01	60	35		10						8	25		5	
2N1893	АН	S	Ν	3W	200	120	80	500	0.01	90	40	120	150									5	
2N1905	AΡ	G	Ρ	30W		100			-	- 3	50	150						2				3	
2N1906	AP	G	Р	30W		130					75	250						3				3	
2N2015	Α	S	N	150W	200	100	50	IOA	50	30	15	50	5A									36	
2N2016	Α	S	N	150W	200	130	65	IOA	50	30	15	50	5A									36	
2N2102	SH	S	N	5W	200	120	80	IΑ	0.002	60	20		0.1	125					I HHZ	15		5	
2N2 47	AP	G	Ρ	12.5W		75			_ ^		100	300						3				3	
2N2 48	ΆP	G	Ρ	12.5W		60					60							2				3	
2N2270	Α	S	N	5W	200	60	60	IΑ	0.1	60	50	200	150						IK HZ 6	15		5	
2N2338	AP	S	N	150W	200	60	40	7.5A	200	30	15	60	3A									36	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N176									
2N217	_								
2N274									
2N301	-								
2N301A								1	
2N351						-			
2N376									
2N404									
2N414									
2N697		2SC1266							
2N699		2SC1266							
2N718A	•								
2N720									
2N1066									
2N1183									
2N1183A			- 1						
2N1183B			m 5						
2N1184									
2N1184A									
2N1184B		4.7							
2N1224	`								
2N1225									
2N1226		_	-						
2N.I 285									
2N1395						_			-
2N1396									
2N1397						-			
2N1479	2SD525		2SD120	2SD361			١		
2N1480	2SD 524		2SD121						
2N1481	2SD 525		2SD120	2SD361					
2N1482	2SD 524	-	2SD121	20000					
2N1483	200 324	2SD335	20072						
2N1484		2SD335							
2N1485		2SD335							~
2N1486		2SD335		-		-			
2N1487		2SD217					2SD338	-	_
2N1487 2N1488	*	2SD217		-			2SD338		
2N1489		2SD217 2SD217		+		-	2SD338		-
2N1489 2N1490		2SD217 2SD217		_			2SD338		
2N1490 2N1613		230217	2SD121	-	 		200000		
2N1683		+	230121	1					
2N1683 2N1700	2SD234			2SD361			2SD292		
2N1700 2N1701	2SD234 2SC789	-2SD335		230301			200232		
2N1701 2N1702	2SC /89	230333					2SD338		
2N17U2 2N1711	230111		2SD121				200000		
2N1711 2N1893			2SD121	 			*		
2N1893 2N1905			230121	-					_
2N1906	200113		<u> </u>			2501074		(2SD208新電元)	
2N2015	2SD113				 	2SD197A			
2N2016	2SD113	000:==				2SD197A		(2SD208新電元)	
2N2102	(2SD152		, ,		2SD158			-
2N2147				<u> </u>	-				
2N2148	-		1				405	******	
2N2270	2SD234			2SD361			2SD292	2SD325	
2N2338	2SD113								

		₹	1	_	AXIMU	T	ATING:						EL	ECTRICA	LUHAR	ALTER	ISTICS	fr				OUTLINE	
TYPE	USE	MATERIAL	POLALITY	Pc 25°C	("C)	Vos (V)	VCEO (V)	(mA)	Ica	_		hrc		hfe	hie (Ω)	hre	hoe	**fab	NF (dB)	Cob (pF)	Coxrob'	TO.	NOT
2N2405	Α			(mW) 5W	200	120	90	IA	(µA)	Vos(V)	min.	_	Ic(mA)		(52)	(×10)	(µT)	(MHz)	I KHZ	(pr/	(ps)	-	
2N2869	AP	S	N	30W	200	60	90	IA	0.01	90	-	-	150			-	-	0.0	6		-	5	
2N2870	AP	G	P	30W	-	80				_	50	165						0.2				3	
2N2895	S	S	N	1.8W	200	120	65	1A	0.002	60	40	-	150				-	0.2	8	15		18	
2N2896	S	S	N	1.8W	200	140	90	IA	0.002	90	60	200	150		_	-			0	15		18	
2N2897	S	S	N	1.8W	200	60	45	IA	0.05	60	50	200	150	-						15	-	18	
2N3053	SH	S	N	5W	200	60	- 45	700	0.25	30	50	250	150							13		5	
2N3054	AP	S	N	25W	200	90	55	4A	500	30	25	100					_	0.8		-		66	
2N3055	AP	S	N	115W	200	100	60	15A	300		20	70	4A			-		0.8		-	-	3	
2N3263	SP	S	N	20W		150	90	25A	4mA	80	25	75	15A					20		500	-	63	
2N3264	SP	S	N	30W		120	60	25A	10mA	60	20	80	15A					20		500		63	
2N3265	SP	S	N	24W		150	90	25A	4mA	80	25	75	15A					20		500		63	
N3266	SP	S	N	28W		120	60	25A	10mA	60	20	80	15A				-	20		500	-	63	
2N3439	АН	S	N	10W	200	450	350	IA			40	160	20				-	-		10		5	
2N3440	АН	S	N	10W	200	300	250	IA		_	40	160	20							10		5	
2N3441	AP	S	N	25W	200	160	140	3A			25	100	50					0.8		-		66	
N3442	AP	S	N	117W	200	160	140	10A	1mA	140	20	70	3A					-				3	
2N3583	AHP	S	N	2.5W	200	250	175	IA			40	<u> </u>	100									66	
2N3584	SP	S	Ν	2.5W	200	375	250	2A			25	100	IA			_				_		66	
2N3585	SP	S	Ν	2.5W	200	500	300	2A			25	100	1A									66	
2N3730	AP	G	Р	10W	-	200					10	200										3	
2N3731	AP	G	Р	5W		320					15											3	
2N3732	AP	G	Ρ	3W		100					35	500										3	
N3771	AP	S	Ν	150W	200	50	40	30A	2mA	50	15	60	15A									3	
2N3772	AP	S	Ν	150W	200	100	60	20A	5mA	100	15	60	10A									3	
2N3773	AP	S	Ν	150W	200	160	140	16A	2mA	140	15	60	8A									3	
2N3878	AHP	S	Ν	35W	200	120	50	7A	5mA	40	50	200	500	6		1				175		66	
2N3879	SP	S	Ν	35W	200	120	90	7A	5mA	40	20	80	4A	6				- 1		175		66	
2N4036	S	S	Р	7W	200	90	65	1A	100	90	20	200	150									5	
2N4037	S	S	P	7W	200	60	40	IA	0.25	60	50	250	150									5	
2N4063	AP	S	N	10W	200	450	350	IA			40	160	20							10		5	
2N4064	AP	S	Ν	10W	200	300	250	IA			40	160	20							10		5	
2N4240	AP	S	Ν	2.5W	200	500	300	2A			30	150	750									66	
2N4314	AP	S	Ρ	7W	200	90	65	IA	0.25	30	50	250	150									5	
2N4346	AP	S	Ρ	5W		320																3	
2N4347	AP	S	Ν	100W	200	140	120	5A			15	60	2A									3	
2N4348	AP	S	Ν	120W	200	140	120	10A			15	60	5A									3	
2N5034	AP	S	N	83W	150	55	40	6A			20	80	4A									219AA	
2N5035	AP	S	Ν	83W	150	55	40	6A			20	-	4A									219AB	
2N5036	AP	S	Ν	83W	150	70	50	8A	L		20	80										219AA	
2N5037	AP	S	Ν	83W	150	70	50	8A			20	80	5A									219AB	
2N5038	SP	S	N	140W	200	150	90	20A			50	200	2A					60		300		3	
2N5039	SP	S	Ν	140W	200	120	75	20A			30	150	2A					60		300	_	3	
2N5189	SH	S	Ν	5W	0.5.	60	35	IA	0.5	30	30	163	100	2.5						15		39	
2N5202	SP	S	Ν	35W	200	120	225	4A	5mA	40	10	100	4A	6			-			175		66	
N5239	AP	S	Ν	W001	200	300	225	5A			20	80	2A	20						150		3	
N5240	AP	S	N	100W	200	375	300	5A		,	20	80	2A	20						150		3	
N5262	SH	S	N	5W	200	75	50	2A	10	60	35	100	100							9		39	
N5293	AP	S	N	36W	150	80	70	4A	-		30	120	500					0.8				66	
N5294	AP	S	N	36W	150	80	70	4A			30	120	500					0.8				66	
N5295	AP	S	N	36W	150	60	40	4A			30	120	IA					0.8		_	-	66	
N5296	AP	S	N	36W	150	60	40	4A			.30	120	IA					0.8			-	66	
2N5297	AP	S	Ν	36W	150	80	60	4A 4A			20	80	1.5A 1.5A					0.8				66	
2N5298	AP	S	N		150																		

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N2405		2SD152		2SD358		2SD158			
2N2869									
2N2870									
2N2895			2SD121	8					
2N2896			2SD121						
2N2897			2SD121			2SD149			
2N3053	2SD131			2SD361			2SD292		
2N3054		2SD297			10				
2N3055			2SD341				2SD340		
2N3263									
2N3264									
2N3265								,	
2N3266									
2N3439		2SC1101			2SD199				
2N3440		2SCI101			2SD198				
2N3441		2SD283		1			2SD56		
2N3442		2SD286							
2N3583			4.		2SD198	2SD159	2SC867		
2N3584	2SC643		2SC937			2SD159			
2N3585	2SC643		2SC937						
2N3730									
2N3731									
2N3732									
2N3771						2SD249			
2N3772				†		2SD250	-		_
2N3773						2SD250	2SD262		
2N3878		2SD323		1		LOBLOO	200202		
2N3879		2SD323							-
2N4036		200020		2SB526					1
2N4037				2SB526					1
2N4063		2SC1101		235320	2SD199		-		-
2N4064		2SC1101			2SD198				-
2N4240	2SC643	2301101	2SC937		230130				1
2N4314	250043		230331	2SB526		_			
2N4346				230320					
2N4347	2SD110	2SD218					2SD340		
2N4347 2N4348	230110	230218					2SD340 2SD340		-
2N5034					2SD334	2SD157	230340		
2N5034 2N5035				-	2SD334 2SD334	2SD157			-
2N5036	2SD110	2SD218			230334	200101	2SD339		
2N5036 2N5037	2SD110	2SD218				-	2SD339 2SD339		
2N5037 2N5038	230110	200210				2SC1301	200333		-
2N5038 2N5039	2SD113	2SD132				2301301			-
2N5189	2SD113 2SD234	200132		2SD361			2SD292		
2N5202	2SD110	2SD218		230301		2SD177	200232		
2N5202 2N5239	230110	230210				230111	2SD262		-
2N5239 2N5240				-			2SD262 2SD262		
2N5240 2N5262		200143	200101	+	2SD226B		2SD262 2SD292		
	200110	2SD143	2SD121	-	2302268	2SD175	2SD292 2SD88A-2		
2N5293	2SD110	2SD218	· .						-
2N5294	2SD110	2SD218		1		2SD175	2SD88A-2		-
2N5295	2SD110	2SD218		-		2SD175	2SD88A-2		
2N5296	2SD110	2SD218		-		2SD175	2SD88A-2		-
2N5297	2SD110	2SD218				2SD175	2SD88A-2		
2N5298	2SD110	2SD218				2SD175	2SD88A-2		
2N5320		2SD285							

		A.	≥		AXIMU	M R	ATING	S					EL	ECTRICA	L CHAR	ACTER	ICS					OUTLINE	
TYPE	USE	MATERIAL	POLALITY	Pc 25°C	Tj (°C)	Vos (V)	VCEO (V)	Ic (max)	log	_		hre		hfe	hie (Ω)	hre (×10)	hoe (μδ)	f t *fae **fab	NF (dB)	Cob (pF)	Coxrbb	TO.	NOTE
2N5321	SP	S	N	(mW)	(6)	75		(mA)	(μA) 5	Vos(V)	min.	max. 250	IC(mA)		(52)	(×10)	(μο)	(MHz)	(ub)	(pr)	(ps)	5	
2N5322	SP	S	P	IOW		100		-	0.5	80	30	130				1		50			-	5	
2N5322	SP	S	P	10W		75		2A	5	60	40	250						50				5	
2N5415	AH	S	P	10W	200	200	200	IA	50	150		150	F.O.	25			-	50		15		- 5	
		S	P		-		-			-	30		-	25	<u> </u>	-	-			_	-		
2N5416	AH		-	10W	200	350	300	IA	50	250	30	120	50	25						15	_	5	
2N5490	AP	S	N	50W	150	60	40	7A			20	100	_					0.8				66	
2N5491	AP	S	Ν	50W	150	60	40	_			20	100						0.8				66	
2N5492	AP	S	N	50W	150	75	55	7A			20	_	2.5A					0.8			_	66	
2N5493	AP	S	N	50W	150	75	55	7A			20	100	2.5A		_	-		0.8				66	
2N5494	AP	S	N	50W	150	60	40				20	100	3A					0.8				66	
2N5495	AP	S	N	50W	150	60		7A			20	100						0.8				66	
2N5496	AP	S	Ν	50W	150	90	70	7A			20	100	3.5A			1		0.8				66	
2N5497	AP	S	N	50W	150	90	70				20	100	3.5A					0.8				66	
2N5575	AP	S	N	300W	175	70		80A	_		10	40	60A				<u></u>	2			_	3	
2N5576	AP	S	Ν	300W	175	70		80A		<u> </u>	10	40	60A					2				3	
2N5577			N	300W	175	70		-			10	40	60A				ļ	2			<u> </u>	3	
2N5578	AP	S	N	300W	175	90		-			10	40	40A			_		2			_	3	
2N5579	AP		N	300W	175	90		60A			10	40	40A					2				3	
2N5580			N	300W	175	90	70				10	40				_		2			_	3	
2N5671	SHP	S	N	140W	200	120	90	30A	10mA	80	20	100	15A			<u> </u>		50		900	_	3	_
2N5672	SHP	S	N	140W	200	150	120	30A	10mA	80	20	100	15A					50		900	_	3	
2N5781	AP	S	Р	IOW	200	80		3.5A			20	100	IA	25		<u>L</u> .					_	5	
2N5782	AP	S	Р	10W	200	65		3.5A			20	1·00	1.2A	25							<u> </u>	5	
2N5783	AP	S	Р	10W	200	45		3.5A			20	100	1.6A	25					ļ		<u> </u>	5	
2N5784	AP	S	N	10W	200	80		3.5A			20	100	1A	25						ļ	_	5	
2N5785	AP	S	N	10W	200	65		3.5A			20	100	1.2A	25							ļ	5	-
2N5786	AP	S	N	10W	200	45		3.5A			20	100	1.6A	25								5	
2N5804	SP	S	N	110W	200	300	225	_			10	100	5A	3								3	
2N5805	SP	S	Ν	110W	200	375	300				10	100	5A	-3		_			,		_	3	
2N5838	SP	S	N	100W	200	275	250				8	40	3A					_		-	_	3	
2N5839	SP	S	N	100W	200	300	275	-			10	50	2A									3	
2N5840	SP	S	Ν	100W	200	375	350				10	50	2A					-	_	-	-	3	
2N5954	SP	S	Р	40W	200	85	80				20	100	3A			1		5			-	66	
2N5955	SP	S	Р	40W	200	70	60	-			20	100	2.5A			-		5	L		ļ.,	66	
2N5956	SP		Р	40W	200	50	40			-	20	100	2A					5			-	66	
2N6032	SP	S	N	140W	200	120	-	50A	10mA	80	10	50	50A					50		800		3	
2N6033	SP	S	N	140W	200	150	120	-	10mA	80	10	_	40A			-	_	50		800	_	3	
2N6055	SP	S	N	100W	200	60	60	-			100	18K						_				3	DARLINGTO
2N6056	SP	S	N	100W	200	80	-	8A			100	18K							_	-		3	DARLINGTO
2N6077	SHP	S	N	45W	200	300	275	7A			12		1.2A			-					_	66	
2N6078	SHP	S	N	45W	200	275	250	7A		-	12	70	1.2A			-			-	<u> </u>	<u> </u>	66	
2N6079	SHP	S	N	45W	200	375	350	7A			12	50	1.2A	15		-	-			-	-	66	
2N6098	AP	S	N	75W	150	70	60	10A			20	80	4.4	15		-		-		1		220AA	
2N6099	AP	S	N	75W	150	70	60	IOA			20	80	4A	15								220AB	
2N6100	AP	S	Ν	75W	150	80	70	IOA			20	80	5A	15			ļ	<u> </u>			_	220AA	
2N6101	AP	S	N	75W	150	80	70	IOA			20	80	5A	15		1						220AB	
2N6102	AP	S	N	75W	150	45	40	16A			15	60	8A	15		_					_	220AA	
2N6103	AP	S	N	75W	150	45	40	16A		_	15	60	8A	15								220AB	
2N6106	AP	S	P	40W	150	80	70				30	150	2A	20				01			-	220AA	
2N6107	AP	S	Р	40W	150	80	70				30	150	2A	20				10			_	220AB	
2N6108	AP	S	Р	40W	150	60	50				30		2.5A	20		ļ		10				220AA	
2N6109	AP	S	Р	40W	150	60	50			-,`	30		2.5A	20			L	10				220AB	
2N6110	AP	S	Р	40W	150	40		7A		′	30	^	3A	20				10				220AA	
2N6111	AP	S	Р	40W	150	40	30	7A	ı		30	150	3A	20				10				220AB	
2N6175	SHP	S	N	20W	135	300	250	IΑ	50	240	30	190	20	25								5.P	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N5321	-	2SD285							
2N5322	2SB502				2SB128				-
2N5323	2SB502				2SB128				
2N5415	2SA739							2SB491-	
2N5416	2SA739							2SB491	
2N5490	2SC793 .	2SD 217					2SD316		
2N5491	2SC793	2SD217					2SD316		
2N5492	2SC793	2SD217					2SD316		
2N5493	2SC793	2SD217					2SD316		
2N5 94	2SC793	2SD 217 ·					2SD316		
2N5495		2SD217					2SD338		
2N5496		2SD217					2SD 338		
2N5497		2SD217					2SD338		
2N5575				0					
2N5576									
2N5577									
2N5578									
2N5579									
2N5580									
2N5671	2SC1435					2SC1301			
2N5672	2SC1435					2SC1301			
2N5781	2SB503		·		2SB128				
2N5782	2SB503				2SB128				
2N5783	2SB503				2SB128				
2N5784	2SD 371	2SD155			1		2SD290		
2N5785	2SD 371	2SD155					2SD290		
2N5786	2SD 371	2SD155					2SD290		
2N5804	200071	200100	-				2SD262		
2N5805	-						2SC1348		-
2N5838							2SD262		
2N5839				+			2SD262		
2N5840							2SC1348		
2N5954	2SB531						2SB518		
2N5955	2SB531 2SB531						2SB518		
	2SB531 2SB531			-			2SB518		
2N5956	258531						230310		
2N6032		000.70		-					-
2N6033		2SD179		-					
2N6055									
2N6056				+			200262		
2N6077				-		-	2SD262		
2N6078							2SD262		
2N6079						200201	2SD262		-
2N6098				_		2SD301			
2N6099						2SD301			-
2N6100						2SD301			-
2N6101				-		2SD301	000000		-
2N6102	2SC1080						2SD340		
2N6103	2SC1080						2SD340		-
2N6106	2SA657	2SA648							
2N6107	2SA657	2SA648							
2N6108	2SA657	2SA648				_			E0.
2N6109	2SA657	2SA648							
2N6110	2SA657	2SA648							
2N6111	2SA657	2SA648							
2N6175					2SD198	2SDI 9			

		AL	2	M	AXIMUI	M R	ATING	S					EL	ECTRIÇA	L CHAR	ACTER	ISTICS						
TYPE	USE	MATERIAL	POLAUTY	Pc	Tj	Vos	VCEC	lc	lα	ю.		hre		hfe	hie	hre	hoe	fr *fae	NF	Cob	Coxrbb	OUTLINE	NOTE
		MA	PO	25°C (mW)	(°C)	(V)	(V)	(mA)	(µA)	Vœ(V)	min.	max.	Ic(mA)		(Ω)	(×10)	(_D)	**fab (MHz)	(d8)	(pF)	(ps)	TO.	
2N6176	SHP	S	N	20W	135	350	300	IA	50	280	30	150	20	25			-	(111.172)				5•P	
2N6177	SHP	S	N	20W	135	450	350	IA	20	360	30	150		25								5•P	
2N6178	SHP	S	N	25W	150	100	75	2A	0.5	80	30	130						50				5•P	
2N6179	SHP	S	N	25W	150	75	50	2A	0.5	60	40	250						50			+	5•P	
2N6180	SHP	S	P	25W	150	100	75	2A	0.5	80	30	130				-	-	50			-	5.P	
2N6181	SHP	S	P	25W	150	75	50	2A	0.5	60	40	250						50			+	5+P	
2N6211	AP	s	P	35W	200	275	225	2A	0.5	- 00	10	100						- 30				66	-
2N6212	AP	S	P	35W	200	350	300	2A			10	100					-			-	-	66	
2N6213	AP	s	P	35W	200	400	350	2A		-	10	100			-	-	\vdash		-	-	+	66	
2N6214	AP	S	P	20 W	200	450	400	2A			10	100			_	-	-			-	-	66	-
2N6246	AP	S	P	125W	200	70	60	15A			20	100	_			-	_	6				3	+
2N6247	AP	S	P	125W	200	90	80	15A		-	20	100				-	-	6				3	
2N6248	AP	S	Р	125W	200	110	100	15A		-	20	100				-		6				3	
2N6248	SP	S	N	175W	200	300	200	IOA		-	10	50						l °	-			3	-
2N6250	SP	S	N	175W	200	375	275		-		8	-			-	-				-	-		-
2N6251	SP	S	N	175W	200	450	350	10A		_	_	50			-	-					-	3	
	_										6	50				-		-	-	1		-3	
2N6253 2N6254	AP	S	N	115W	200	55	45	15A		-	20	70	_			-			ļ	-		3	
	AP	S	N	150W	200	100	80	15A	1		20	70										3	
2N6257 2N6258	AP	S	N	150W	200	50	40	20A	4mA	50	15	75				-				-		3	
		S		250W	200	100	80	30A	ImA	100	20	60				1						3	
2N6259 2N6260	AP AP	S	N	250W	200	170	150	I6A			15	-	8A									3	
		S	N	29W	200	50	40	3A			20	100	-									66	
2N6261	AP	S	N	50W	200	90	85	4A		_	25	100										66	
2N6262	AP	S	N	150W	200	170	150	10A		_	20	_	3A			_						3	
2N6263	AP	S	N	20W	200	140	120	3A			20	100						0.8			٠	66	
2N6264	AP	S	N	50W	200	170	150	3A			20	60						0.8				66	-
2N6288	SP	S	N	40W	150	40	30	7A			30	150										220AB	
2N6289	SP	S	N	40W	150	40	30	7A			30	150									_	220AA	
2N6290	SP	S	N	40W	150	60	50	7A			30	150	-			_						220AB	
2N6291	SP	S	N	40W	150	60	50	7A			30	150	2.5A									220AA	
2N6292	SP	S	N	40W	150	80	70	7A			30	150										220AB	
2N6293	SP	S	N	40W	150	80	70	7A			30	150										220AA	
2N6354	SHP	S	N	140W	200	150	120	IOA	5mA	150	20	150					- 7					. 3	
2N6371	AP	S	N	117W	200	50	40	7A			15		8A	10				0.8				3	
2N6372	SP	S	N	40W	200	90	80	6A			20	100						4				66	
2N6373	SP	S	N	40W	200	70	60	6A			20	100	2.5A					4				66	
2N6374	SP	S	N	40W	200	50	40	6A			20	100	3A					4				66	
2N6383	AP	S	N	100W	200	4.0	40	10A			IOK		5A	IK								3	DARLINGTO
2N6384	AP	S	N	100W	200	60	60	IOA.			10K		5A	IK								3	DARLINGTO
2N6385	AP	S	N	100W	200	80	80	A01					5A	IK								3	DARLINGTO
2N6386	AP	S	N	40W	150	40	40	8A					3A	IK						200		220AB	
2N6387	AP	S	N	40W	150	60	60	IOA				20K	5A	IK						200		220AB	
2N6388	AP	S	N	40W	150	80	80	IOA			IOK	20K	5A	IK						200		220AB	DARLINGTO
		_				_	_								-						\sqcup		
	H						-									-							
	-		_					-		-		-									\vdash		
	-	_				-		_	-							-							
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	\vdash		\vdash		-																		-
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_	\vdash		\vdash		-		-	\dashv		-			-										
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			\vdash		\rightarrow		-	\dashv			_												

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N6176					2SD198	2SD159			
2N6177							2SD171		
2N6178	2SC1079		2SC1055		2SC840				
2N6179	2SC1079		2SC1055		2SC840				
2N6180	2SA740	2SA616							
2N6181	2SA740	2SA616							
2N6211								2SB491	
2N6212	2SA739								
2N6213	2SA739								
2N6214	2SA739								
2N6246	2SA680								
2N6247	2SA679								
2N6248	2SA679								
2N6249	2SC1434								
2N6250	2SC1434								
2N6251	2SC1434								1
2N6253	2SD113	2SD151	1_			2SD250	2SD340		
2N6254	2SD113	2SD151				2SD250	2SD340		
2N6257	2SD113					2SD249			
2N6258	2SD113	2SD179							
2N6259		2SD179							
2N6260								2SD313	
2N6261						2SD175			
2N6262	4						2SD262		
2N6263			2SD126		2SD321				
2N6264		y	2SD126		2SD321				
2N6288		2SD322							
2N6289		2SD322					-		
2N6290		2SD322							
2N6291		2SD322							
2N6292		2S D 322							
2N6293		2SD322		-					
2N6354							2SD262		
2N6371	2SD119					2SD249			
2N6372		2SD218					2SD88		
2N6373		2SD218					2SD88		
2N6374		2SD218			1		2SD88		
2N6383								_	-
2N6384									1
2N6385									-
2N6386									
2N6387									-
2N6388									
									-
									-
			L						
									1
			1						
						1			

29 SI SI SI SI SI SI SI SI SI SI SI SI SI	SHP SHP SHP SHP SHP SHP SHP SHP SHP SHP	8 5 5 5 5 5 5 5 5 5 5 5 5 5 5	7 2 2 2 2 0 0 0 0 2 2 2 2 POLALITY	Pc 25°C (mw) 30W 30W 30W 30W 30W 30W 30W 30W 40W 40W	Tj (°c) 150 150 150 150 150 150 150 150 150 150	Vos (V) 40 60 80 100 40 60 80 100	40	Ic (mA) 3A 3A 3A 3A 3A 3A	loa((μA)	Vos(V)	min. 15 15	75 75	Ic(mA) IA	hfe 20	hie (Ω)	hre (×10)	hoe (ত্ৰ্যু)	ft *fae **fab (MHz)	NF (dB)	Cob (pF)	Coxrbb' (ps)	TO 220AB	NOTE
299A Si29B Si29B Si29B Si29B Si29B Si39B Si30A Si30B Si30B Si30B Si30C Si31B Si31A Si31B Si31C Si32B S	SHP SHP SHP SHP SHP SHP SHP SHP SHP SHP	8 8 8 8 8 8 8 8 8 8 8 8 8	z z z z o o o o z z z z	30W 30W 30W 30W 30W 30W 30W 30W 40W 40W	150 150 150 150 150 150 150 150	40 60 80 100 40 60 80	40 60 80 100 40	3A 3A 3A 3A	(μκ)	VORV.	15 15	75 75	IA	20	((MHZ)				220AB	
299A Si29B Si29B Si29B Si29B Si29B Si39B Si30A Si30B Si30B Si30B Si30C Si31B Si31A Si31B Si31C Si32B S	SHP SHP SHP SHP SHP SHP SHP SHP SHP SHP	8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	z z z o o o o z z z z	30W 30W 30W 30W 30W 30W 30W 40W 40W	150 150 150 150 150 150 150	60 80 100 40 60 80	60 80 100 40 60	3A 3A 3A 3A			15	75		20									
299 S S 299 S S 299 S S 299 S S 299 S S 299 S S 299 S S 299 S S 299 S S 299 S S 299	SHP SHP SHP SHP SHP SHP SHP SHP SHP SHP	5 5 5 5 5 5 5 5 5 5	Z Z D D D Z Z Z Z	30W 30W 30W 30W 30W 30W 40W 40W	150 150 150 150 150 150 150	80 100 40 60 80	80 100 40 60	3A 3A 3A						20								220AB	
290 Si 200 Si 300	SHP SSHP SSHP SSHP SSHP SSHP SSHP SSHP	5 5 5 5 5 5 5 5 5	Z Z Z D D D Z Z Z Z	30W 30W 30W 30W 30W 40W 40W 40W	150 150 150 150 150 150	100 40 60 80 100	100 40 60	3A 3A			15	75	IA	20								220AB	
Signature Sign	SHP SSHP SSHP SSHP SSHP SSHP SSHP SSHP	5 5 5 5 5 5 5 5 5	Z Z Z Z D D D D	30W 30W 30W 30W 40W 40W	150 150 150 150 150	40 60 80 100	40 60	3A			15	75	IA	20								220AB	
300A S 300B S 300B S 300C S 300C S 300C S 300C S 300C S 300C S 300E S 400E S	SHP SHP SHP SHP SHP SHP SHP SHP SHP SHP	5 5 5 5 5 5 5	2 2 2 2 2 2 Z	30W 30W 30W 40W 40W	150 150 150 150	60 80 100	60				15	75	IA	20							\vdash	220AB	
Solution	SHP SHP SHP SHP SHP SHP SHP SHP SHP	5 5 5 5 5 5	ZZZZZ	30W 30W 40W 40W 40W	150 150 150	80 100		SA		_	15	-	IA	20		\vdash						220AB	
Solution	SHP SHP SHP SHP SHP SHP SHP SHP	5 5 5 5 5 5	ZZZZZ	30W 40W 40W 40W	150 150	100	00	-			15	75	IA	20		\vdash						220AB	
S	SHP SHP SHP SHP SHP SHP SHP SHP	S S S S S	z z z z	40W 40W 40W	150		100	3A 3A			15	75	IA	20		\vdash	-				_	220AB	
31A S 31B S 31B S 31B S 31B S 31B S 31C S	SHP SHP SHP SHP SHP SHP SHP	S S S S	ZZZ	40W 40W		40	40	5A			10	\longrightarrow	3A	20								220AB	
31B S S 31C	SHP SHP SHP SHP SHP SHP	s s s	Z	40W	IFO	40	60	5A			10		3A	20		_						220AB	
31C S 32 S 32 S 32A S 32B S 32C S 41 S 41A S 41B S 41C S 42C S 42C S	SHP SHP SHP SHP SHP	s s	N		150	80	80	5A			10	$\overline{}$	3A	20		_					\vdash	220AB	
32 S S S S S S S S S S S S S S S S S S S	SHP SHP SHP SHP	S S	-			100					10		3A	20		-				_	_	220AB	
32A S 32B S 32C S 41 S 41A S 41B S 41C S 42 S 42A S 42B S 42C S	SHP SHP SHP	S		40W	150	_	100	5A		_	10	$\overline{}$	3A	20							\vdash	220AB	
32B S S S S S S S S S S S S S S S S S S S	SHP SHP	-		40W	150	40	40	5A			10	50		20							\vdash	220AB	
32C S S S S S S S S S S S S S S S S S S S	SHP SHP		Р	40W	150	60	60 80	5A			10	50		20		+					-	220AB	
\$11 S \$41A S \$41B \$5 \$41C \$5 \$42A \$5 \$42C \$5 \$101 \$A	SHP	S	P	40W	150	80		5A			10		3A	20		-					-	220AB	
AIA S AIB S AIC S	-	S	P	40W	150	100	100	5A		<u> </u>	-	75	3A	20		-		\vdash			_	220AB	
11B S 11C S 12 S 12A S 12A S 142B S 142C S	SHP	S	N	65W	150	40	40	7A			15	75	3A	20							+	220AB	
11C S 12 S 12A S 12A S 12B S 142C S	-	S	N	65W	150	60	60 80	7A 7A	-	-	15	75	3A	20		-	-				\vdash	220AB	
12 S 12A S 142B S 142C S		S	N	65 W	150	80	-				15	75	3A	20		-						220AB	
12A S 12B S 12C S	_	S	N	65W	150	100	100	7A			15	75	3A	20		+					+	220AB	
42B S 42C S 101 A		S	P	65W	150	40	40	7A			15		3A	20		╆-		-			\vdash	220AB	
12C S	_	S	P	65W	150	60	60	7A			15	75	3A	20		-	_	\vdash			\vdash	220AB	
101	SHP	S	P	65W	150	80	100	7A		-	15	75	3A	20		-		\vdash			+	220AB	
	SHP	S	P P	65W	150	100	40	7A 7A	100	40	25	150	2A	20		+		+				220AB	
102 II A	AP	S		75W	150	40	60	7A	100	60	25		2A			+				_	+-	220AB	
	AP	S	P	75W	150	60			100	60	30	150	IA			+					+-	220AB	
	AP	S	Р	75W	150	60	60	7A	100	80	30	150	1A			+	-	-			+	220AB	
	AP	S	P	75W	150	80	80	7A		_	-	100						<u> </u>	-	-	+-	220AB	
	AP	S	Р	65W	150	50	50	7A	100	50	25 25	150				-	<u>-</u>	-			+-	220AB	
	AP	S	N	75W	150	40	40	7A	100	40	25	_	_			+	<u> </u>	+			_	220AB	
	AP	S	N	75W	150	60	60	7A	100	60	30	150	IA			-	-				+	220AB	
	AP	S	N	75W	150	60	60	7A		60											+	220AB	
	AP	S	N	75W	150	80	80	7A	100	80	30	150	IA					-			+	220AB	
	AP	S	N	65W	150	50	50	7A	100	50	25	100				+		-			+	220AB	
	AP	S	Р	40W	150	30	30	5A	100	30	25	├	IA	-		-		+		-	+	220AB	
	AP	S	Р	40W	150	40	40	5A	100	40	40	20	IA			-		4	-		+	3	-
	AP	S	N	125W	200	200	200	7A			30	90	IA-	-		+	-	2.5		-	+	3	_
	AP	S	N	125W	200	300	300	7A	-	-	30 20	90	_		-	+		4		+-	+-	3	
	AP	S	N	125W	200	400	325	7A	-			90	_	-		+-	1	4			+	3	
	AP	S	N	125W	200	400	325	7A	-	<u> </u>	30 15	_	_	-	-	+	+-	4		+	+	3	
	AP	S	N	125W	200	400	325	7A	100	20	_	35	2.5A		-	+	-	+-	-		+	220AB	-
	AP	S	N	40W	150	30	30	5A	100	30 40	25 40	\vdash	IA		1	+	-	+			+	220AB	-
	AP	S	N	40W	150	40	40	5A	100	40	_							-			+	3	DARLING
	AP	S	N	90W		60	60	8A	-	-	750	_	4A	-	-	+	-	+		-	+	3	DARLING
	AP	S	N	90W	_	80	80	8A		<u> </u>	750	-	4 A	<u> </u>		+	-	0.2		+	+	3	DARLING
40022		G	Р	12.5W	_	32		-	-		38	<u> </u>	_		-	+		0.3		-	+	3	-
40050		G	Р	12.5W		40		-			50	-		 	-	+	-	0.5		ŀ-	+	3	
40051		G	Р	12.5W		50	L.	ļ.,			50	0.50	150	 -	-	+		0.5	1 KHZ	15	+-	18	
	SH	S	N	1.8W	200	60	_	-	0.25	30	50		150	5	-	+	1	+-	8	15	+-		_
	AP	S	N	29W	200	50	_	_	ImA	30	25	100	_	-	⊢ −	+	-	+	-	-	+-	66 66	-
	AP	S	N	5.8W	200	50	-	_	ImA	,30	25	_	1.5A	-	-	+-	-	+	-	-	+-	3	
	AP	S	N	117W	200			15A	2mA	,40	15	60	8A		_	_	-	100	-		+	3	-
40254		G	Р	12.5W	_	32	_		ι	<u> </u>	30			<u> </u>	_	<u> </u>	-	0.3		1	_		
40309	SP	S	N	5W	200			700 4A	0.25	15	70	350	50	1	1			100			1	5	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
29	2SD235	_			2SD226		2SD291		1
29A	2SD234				2SD226A		2SD292		
29B	2SD102	2SD218				2SD148	2SD292		1
29C	2SD102	2SD218				2SD148	200202		1
30					2SB513			2SB507	1
30A					2SB513			2SB507	
30B	2SA739				2320.0			EGDOO	+
30C	2SA739	_		_					_
31	2SD107	_					2SD88-I		1
31A	2SD107		·				2SD88-I		-
31B	2SD107						2SD88-I		
31C	2SD111	2SD218				2SD177	2SD88A-1		-
32	2SA657	2SA648				200177	ZODOGA 1	_	
32A	2SA657	2SA648		_					+
32B	2SA657	2SA648							+ -
32C	2SA657	2SA648						-	+
41	2SD119	2SD218	2SD125A	_		2SD116	2SD88A-I		+
41A	2SD119	2SD218	2SD125A	_		2SD116	2SD88A-1		+
41B	2SD119	2SD218	2SD125A	-		2SD116	2SD88A-I		
41C	2SD119	2SD218	2SD125A	_		2SD116	2SD88A-I		_
42	2 SA663	2SA648	LOUILDA			230110	23D00A 1		
42A	2SA663	2SA648			_				+
42B	2SA663	2SA648							
42C	2SA663	2SA648			-				-
101	2SA663	2SA648			_				-
102	2SA663	2SA648				_	_		-
103	2SA663	2SA648			-		-	7	-
104	2SA663	2SA648							-
105	20A003	234046	_						
201	2SD119	2SD218	2SD125A	_		2SDI16	200004 1		+
202	2SD119	2SD218	2SD125A 2SD125A				2SD88A-I		
203	2SD119	2SD218	2SD125A 2SD125A			2SD116	2SD88A-I		
204	2SD119	2SD218				2SD116	2SD88A-1		-
205	2SD119 2SD119	2SD218	2SD125A			2SD116	2SD88A-I		-
370	2SA658		2SD125A			2SD116	2SD88A-I		
		2SA627				_		_	
371	2SA658	2 SA627							
410						2SC1229			
411						2SC1227			
413				-		2SC1230			
423						2SC1230			
431	000.00	200:00				2SC1230			
520	2SD107	2SD188					2SD338		
521	_	2SD188					2SD338		
1000									1
1001									
10022		· ·							
10050									
40051									
10084			2SD120					13	
10250		2SD155			2SD226			2SD315	
10250VI		2SD155			2SD226			2SD315	
10251	2SD114	2SD151	2SD341	,		2SD250	2SD340		
10254									-
10309			2SC1162	2SC1014	2SC1226				
10310	-	2SD155	Π		2SD226			2SD315	

		=	1	I	МА	XIMUI	M R	ATINGS	3					EL	ECTRICA	L CHAR	ACTER	STICS					0.1711105	
TYPE	USE	MATERIA	POLAUTY		Pc 25°C	Tj (*c)	Vos (V)	VCEO (V)	lc (mA)	los	_		hre		hfe	hie (Ω)	hre (×10)	hoe	fr *fae **fab	NF (dB)	Cob (pF)	Coxrbb'	OUTLINE TO.	NOTE
10011	05	1	1	4	(mW)	(°C)		(¥)	(mA)	(µA)	Vos(V)	min.	_	Ic(mA)		(92)	(×10)	(µ7)	**fab (MHz)	(db) -	(pr)	(дз)	-	
40311	SP	S	-	+	W	200	30		700	0.25	15	70	350	50					100				5	
40312	SP	S	N	-	29W	200	60		4A	10	15	20	120	IA					0.75				66	
40313	SP	S	-	-	35W	200	300		2A			40	250	100					100				66	
40314	SP	S	N	-	5W	200	40		700	0.25	15	70	350	50					100				5	
40315	SP	S			5W	200	35		700	0.25	15	70	350	50					100				5	
40316	SP	S	-	-	29W	200	40		4A	10	15	20	120	IA					0.75			-	66	
40317	SP	S	+-	-	5W	200	40		700	0.25	15	40	200	10				_			_		5	
40318	SP	S	N	-	35W	200	300		2A			50		500			1						66	
40319	SP	S	1	-1	5W	200	40		700	0.25	15	35	200	50			1		100				5	
40320	SP	S	N	_	5W	200	40		700	0.25	15	40	200	10							-	-	5	
40321	SP	S	-	-	5W	200	300		IΑ			25	200									_	5	
40322	SP	S	N	-	35W	200	300		2A			75		500							_		66	
40323	SP	S	N	-	5W	200	10		700	0.25	15	70	350	50			1_		100				5	
40324	SP	S	N	_	_	200	35		4A	10	15	20	120	IA			_		0.75				66	_
40325	SP	S	N	_		200	35		15A	5mA	30	12	60				ļ					ļ	3	
40326	SP	S	N	-1	5W	200	40		700	0.25	15	40	200	10			ļ						5	
40327	SP	S	N	_	5W	200	300		lΑ			40	250	20									5	
40328	SP	S	N	-	35W	200	300		2A			40		20									66	
40346	SP	S	N	-	IOW	200	175		IA			25		10									5	
40346VI	SP	S	N	4	10W -	200	175		IΑ			25	<u>.</u>	10									5	
40346V2	SP	S	N	4	IW.	200	175		IA			25		10									5	
40347	AP	S	-	-	3.75W	200	60		1.5A			25	100	450									5	-
40347VI	AP	S	N	-	1.4W	200	60	_	1.5A			25	100	450									5	
40347V2	AP	S	N	ا	11.7W	200	60	40	1.5A			25	100	450									5	-
40348	AP	S	N	8	3.75W	200	90	65	1.5A			30	125	300									5	
40348VI	AP	S	N	1	1.4W	200	90	65	1.5A			30	125	300									5	
40348V2	AP	S	N	_	11.7W	200	90	65	1.5A			30	125	300	-								5	
40349	AP	S	N	_	3.75W	200	160	140	1.5A			30	125	150									5	
40349∨1	AP	S	N	4	1.4W	200	160	140	1.5A			30	125	150									5	
40349V2	AP	S	N	ı	11.7W	200	160	140	1.5A			30	125	150									5	
40360	SP	S	N	ŗ	5W	200	70		700			40	200	10					100				5	
40361	SP	S	N	5	5W	200	70		700			70	350	50					100				5	1
40362	SP	S	Р	5	5W	200	70		700			35	200	50					100				5	u
40363	SP	S	N	I	115W	200	70		15A			20	70	4A					0.7				3	
40364	SP	S	N	3	35 W	200	60		7A			35	175	500					15				66	
40366			N	5	SW.	200	120	65	ΙÁ	2nA	60	40	120	150									5	
40367			N		SW.	200	100	55	1.5A	4	30	35	100	200									5	
40368			Ν	-	25W	200	100	55	_	9	30	35	100										8	
40369			N	-	_	200	100	55		10	30	25	-	1.5A									3	
40372	AP	S	N	_	25W	200	90	55				25	_	500					<u> </u>				66	
40373	AΡ	S	N	-	25W	200	160	140				25	100						0.8				- 66	-
40374	AHP	S	N	-	5.8W	200	250		2A			40		100									66	
40375	SP	S	N	-		200	120	50		5mA	40	50	200	500	6						175		66	
40385			Ν	-1	5W	200	450	350	IA	L		40	160	20						L			5	
40389	SH	S	Ν	_		200	60		700	0.25	30	50	250	150							15		5	
40390	АН	S	Ν		3.5W	200	300	250	IA			40	160	20							10		66	
40391	AP	S	Ρ	_	3.5W	200	60	40	IA	0.25	30	50	250	150									5	
40392	SH	S	N	4	7W	200	60		700	0.25	30	50	250	150							15		5	
40394	AΡ	S	Ρ	Ī	7W	200	60	40	IΑ	0.25	30	50	250	150									5	
40406	SH	S	Р	J	IW	200	50		700			30	200	0.1					100				5	
40407	SH	S	N	Ī	IW	200	50		700	0.25	10	40	200	1					100		15	1	5	
40408	SH	S	N	1	IW	200	90		700	,		40	200	10					100				5	
40409	ŞH	S	N	1	3W	200	90		700 •			50	250	150					100			T	5	
40410	SH	S	P	1	3W	200	90		700			50	250	150					100				5	
40411	SHP	S	N	1	150W	200	90		30A			35	100	4A					0.8				3	

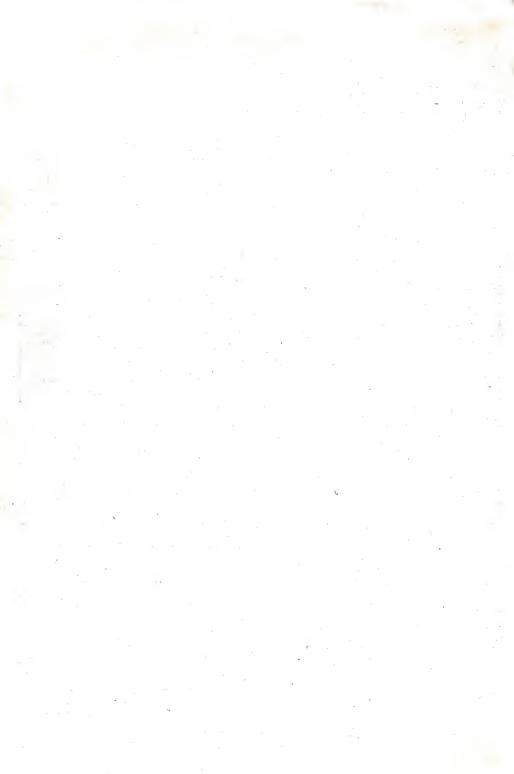
40312	SC1173 SC1433 SC1173 SC1173 SC1173 SC1433 SC1173 SC1433 SC1173 SC1433 SC1173 SC1433 SC1173 SC1433 SC1433	2SC 204 2SD155 2SC 204 2SD155 2SC 204 2SC 204 2SC 204 2SD155 2SD151 2SC 204	2SD120 2SD120 2SD120 2SD120	2SC1014 2SC1014 2SC1014 2SC1014 2SC1014 2SC1014 2SC1014 2SC1014 2SC1014	2SC1226 2SD226A 2SC1226 2SC1226 2SD226A 2SC1226 2SC1226 2SC1226 2SC1226 2SC1226 2SC1226 2SC1226 2SC1226 2SC1226	2SC1463 2SC1463 2SD159 2SC1463 2SD250 2SD250 2SD251 2SD251 2SD251	2SA761 2SD340 2SD292		
40313	SC1173 SC1173 SC1173 SC1433 SC1433 SC1433 SC1433 SC1433 SC1173 SC1433 SC1173	2SC 204 2SD155 2SC 204 2SC 204 2SC 204 2SD155 2SD151 2SC 204	2SD120 2SD341 2SD321	2SC1014 2SA624 2SC1014 2SC1014 2SC1014 2SC1014 2SC1014	2SC1226 2SC1226 2SD226A 2SC1226 2SC1226 2SC1226 2SD198 2SC1226 2SD226A 2SC1226	2SD159 2SD159 2SD1463 2SD250 2SD159 2SC1463 2SD251 2SD251	2SD340		
40314 2S 40315 2S 40316 40317 2S 40318 2S 40319 2S 40320 2S 40321 2S 40322 2S 40324 40325 40326 2S 40347 2S 40346V1 40346V2 40348 40348V1 40348V2 40349 40349V1 40349V2 40360 2S 40366 40366 40366 40366 40366 40366 40366 2S 40367 2S 40368 2S 40373 2S	SC1173 SC1173 SC1173 SC1433 SC1433 SC1433 SC1433 SC1433 SC1173 SC1433 SC1173	2SD155 2SC204 2SC204 2SC204 2SD155 2SD151 2SC204	2SD120 2SD341 2SD321	2SC1014 2SA624 2SC1014 2SC1014 2SC1014 2SC1014 2SC1014	2SC1226 2SD226A 2SC1226 2SC1226 2SC1226 2SD198 2SC1226 2SD226A	2SD159 2SD159 2SD1463 2SD250 2SD159 2SC1463 2SD251 2SD251	2SD340		
40315 2S 40316 40317 2S 40318 2S 40318 2S 40319 2S 40320 2S 40321 2S 40322 2S 40323 2S 40326 40326 40326 40346 40346 40346 40346 40348 40349 403	SC1173 SC1173 SC1433 SC1433 SC1782 SC1433 SC1173 SC1173 SC1173 SC1173 SC1433	2SD155 2SC204 2SC204 2SC204 2SD155 2SD151 2SC204	2SD120 2SD341 2SD321	2SC1014 2SA624 2SC1014 2SC1014 2SC1014 2SC1014 2SC1014	2SC1226 2SD226A 2SC1226 2SC1226 2SC1226 2SD198 2SC1226 2SD226A	2SD159 2SC1463 2SD250 2SD159 2SC1463 2SD251 2SD251	2SD340		
40316 40317 2S 40318 2S 40319 40320 2S 40322 2S 40323 2S 40326 40326 403473 403473 40373 40373	SC1173 SC1433 SC1433 SC1173 SC782 SC1433 SC1173 SC1173 SC1433	2SC204 2SC204 2SC204 2SD155 2SD151 2SC204	2SD341	2SC1014 2SA624 2SC1014 2SC1014 2SC1014 2SC1014	2SD226A 2SC1226 2SC1226 2SD198 2SC1226 2SD226A 2SC1226	2SD159 2SC1463 2SD250 2SD159 2SC1463 2SD251 2SD251	2SD340		
40317 2S 40318 2S 40319 40320 2S 40321 2S 40322 2S 40323 2S 40326 2S 40327 40328 2S 40344 40346 40346 40348 40348 40348 40349	SC1433 SC1173 SC782 SC1433 SC1173 SC1173 SC1173	2SC204 2SC204 2SC204 2SD155 2SD151 2SC204	2SD341	2SA624 2SC1014 2SC1014 2SC1014 2SC1014	2SC1226 2SC1226 2SD198 2SC1226 2SD226A 2SC1226	2SD159 2SC1463 2SD250 2SD159 2SC1463 2SD251 2SD251	2SD340		
40318 2S 40319 4 0320 2S 40321 2S 40322 2S 40323 2S 40324 4 0325 2S 40326 2S 40326 2S 40346 40346 2 40347 2S 40347 2S 40348 40348 4 0348V1 40348V2 40349 4 0349V1 40349V2 40360 2S 40361 2S 40362 40363 40364 40366 2S 40367 2S 40368 2S 40373 2S	SC1433 SC1173 SC782 SC1433 SC1173 SC1173 SC1173	2SC204 2SC204 2SD155 2SD151 2SC204	2SD341	2SA624 2SC1014 2SC1014 2SC1014 2SC1014	2SC1226 2SD198 2SC1226 2SD226A 2SC1226	2SD159 2SC1463 2SD250 2SD159 2SC1463 2SD251 2SD251	2SD340		
40319 40320 2S 40321 2S 40322 2S 40323 2S 40324 40325 2S 40326 2S 40327 40326 40346VI 40346VI 40346VI 40347VI 2S 40347VI 2S 40348VI 40348VI 40349VI 40360 2SI 40361 2SI 40362 40363 2SI 40368 2SI 40368 2SI 40372 2SI	SC1173 SC782 SC1433 SC1173 SC1173 SC1173	2SC204 2SD155 2SD151 2SC 204	2SD341	2SC1014 2SC1014 2SC1014 2SC361 2SD361	2SD198 2SC1226 2SD226A 2SC1226	2SD159 2SC1463 2SD250 2SD159 2SC1463 2SD251 2SD251	2SD340		
40320 2S 40321 2S 40322 2S 40322 2S 40323 2S 40325 2S 40326 2S 40327 40346 40346V1 40346V2 40347 2S 40347V1 2S 40348V1 40348V2 40349 40349 40349 2S 40360 2S 40361 2S 40362 40364 40366 40366 2S 40367 2S 40368 2S 40369 2S 40373	SC182 SC1433 SC1173 SC1173 SC1433 SD234 SD234	2SC204 2SD155 2SD151 2SC 204	2SD341	2SC1014 2SC1014 2SC1014 2SC361 2SD361	2SD198 2SC1226 2SD226A 2SC1226	2SC1463 2SD250 2SD159 2SC1463 2SD251 2SD251	2SD340		
40321 2S 40322 2S 40323 2S 40324 40325 40326 2S 40327 40328 2S 40340 24 40346 2 40347 2S 40347 2S 40347 2S 40348 2 40348 2 40348 2 40349 4	SC182 SC1433 SC1173 SC1173 SC1433 SD234 SD234	2SC204 2SD155 2SD151 2SC 204	2SD121	2SC1014 2SC1014 2SC361 2SC361	2SD198 2SC1226 2SD226A 2SC1226	2SC1463 2SD250 2SD159 2SC1463 2SD251 2SD251	2SD340		
40322 2S 40323 2S 40324 40325 2S 40327 40328 2S 40346 40346 2S 40347 2S 40347 2S 40347 2S 40348 2 40348 2 40348 2 40349 40349 1 40348 2 40360 2S 40361 2S 40362 40363 40364 40366 2S 40367 2S 40369 2S 40373 2S	SC1433 SC1173 SC1173 SC1433 SD234 SD234	2SD155 2SD151 2SC 204	2SD121	2SC1014 2SD361 2SD361	2SC1226 2SD226A 2SC1226	2SC1463 2SD250 2SD159 2SC1463 2SD251 2SD251	2SD340		
40323 2S 40324 40325 40326 2S 40327 40328 2S 40346 40346VI 40346V2 40347V2 2SI 40348V1 40348V2 40349V1 40349V2 40360 2SI 40362 40361 2SI 40364 40366 2SI 40366 2SI 40368 2SI 40369 2SI 40373	SC1173 SC1173 SC1433 SD234 SD234	2SD155 2SD151 2SC 204	2SD121	2SC1014 2SD361 2SD361	2SD226A 2SC1226	2SD250 2SD159 2SC1463 2SD251 2SD251			
40324 40325 40326 2S 40327 40328 2S 40346 40346VI 40346VI 40347VI 2S 40347VI 2S 40347VI 2S 40348VI 40348VI 40348VI 40349VI 40349VI 40349VI 40360 2S 40361 40362 40362 40363 40364 40366 2S 40367 2S 40368 2S 40369 2S 40369 2S 40369 2S 40367 2S 40368 2S 40369 2S 40369 2S 40367 2S 40368 2S 40368 2S 40369 2S 40369 2S 40369 2S 40369 2S 40367 2S 40367 2S 40368 2S 40368 2S 40369 2S 40369 2S 40369 2S 40367 2S 40367 2S 40368 2S 40369 2S 40369 2S 40369 2S 40369 2S 40367 2S 40367 2S 40368 2S 40368 2S 40373 2S 40373	SC1173 SC1433 SD234 SD234	2SD155 2SD151 2SC 204	2SD121	2SC1014 2SD361 2SD361	2SD226A 2SC1226	2SD159 2SC1463 2SD251 2SD251			
40325 40326 2S 40327 40346 40346V1 40346V2 40347 2S 40347V1 2S 40348 40348V1 40348V2 40349 40349 40349 40360 2S 40361 2S 40362 40361 2S 40362 40366 2S 40367 2S 40368 2S 40368 2S 40369 2S 40369 2S 40369 2S 40369 2S 40367 2S 40368 2S 40369 2S 40373	SD234 SD234	2SD151 2SC 204	2SD121	2SD361 2SD361	2SC1226	2SD159 2SC1463 2SD251 2SD251			
40326 2S 40327 40328 2S 40346 40346 40346 40346 40348	SD234 SD234	2SC 204	2SD121	2SD361 2SD361		2SD159 2SC1463 2SD251 2SD251			
40327 40328 2S 40346 40346VI 40346V2 40347VI 2S 40347V2 2SI 40347V2 40348V1 40348V2 40349V1 40349V2 40360 2SI 40361 2SI 40362 40363 40363 40366 2SI 40367 2SI 40369 2SI 40373	SD234 SD234	x		2SD361 2SD361		2SC1463 2SD251 2SD251	2SD292	74 400	
40328 2S 40346 4 40346 2 40347 2S 40347 2 S 40347 2 S 40347 2 S 40348 4 40348 4 40349 4 40349 2 40360 2S 40361 2S 40362 4 40366 2S 40366 2S 40368 2S 40369 2S 40373	SD234 SD234			2SD361	2SD198	2SC1463 2SD251 2SD251	2SD292		
40328 2S 40346 4 40346 V2 40347 2S 40347 V2 2S 40347 V2 2S 40348 4 40348 V2 40349 V1 40349 V2 40360 2S 40361 2S 40362 4 40363 4 40366 2S 40367 2S 40368 2S 40369 2S 40373 2S	SD234 SD234			2SD361		2SD251 2SD251	2SD292		
40346VI 40346V2 40347V1 40347V2 2SI 40347V2 2SI 40348V1 40348V2 40349V1 40349V2 40360 40361 40362 40363 40364 40366 40367 40368 2SI 40368 2SI 40368 2SI 40369 2SI 40372 2SI 40372 2SI 40373	SD234			2SD361		2SD251	2SD292		
40346V2 40347 2S 40347V1 2S 40347V2 2S 40348V1 40348V2 40349V1 40349V1 40349V2 40360 2S 40361 2S 40362 40363 40364 40366 2S 40367 2S 40368 2SI 40369 2SI 40369 2SI	SD234			2SD361			2SD292		
40347 2SI 40347V1 2SI 40347V2 2SI 40348 40348V1 40349V2 40349 40349V2 40360 2SI 40360 2SI 40361 2SI 40363 40364 40366 2SI 40367 2SI 40368 2SI 40372 2SI 40373	SD234			2SD361		2SD251	2SD292		
40347VI 2SI 40347V2 2SI 40348 40348VI 40348V2 40349 40349V2 40360 2SI 40362 40363 40364 40366 2SI 40368 2SI 40369 2SI 40373	SD234			2SD361			2SD292		
40347V2 2SI 40348 40348V1 40348V2 40349V1 40349V2 40360 2SI 40360 40366 40366 2SI 40366 2SI 40367 2SI 40368 2SI 40373 2SI									
40347\\\2 2Si 40348 4 40348\\\1 40348\\\2 40349\\\1 40349\\\2 40360 2Si 40361 2Si 40362 40363 40364 40366 2Si 40366 2Si 40367 2Si 40368 2Si 40373 2Si							2SD292		t
40348 40348 40348 40348 40349 40349 40360 25 40361 40362 40364 40366 25 40367 25 40368 25 40368 25 40369 40373 25 40373	_						2SD292		
40348VI 40348V2 40349VI 40349VI 40360 2Si 40361 2Si 40362 40363 40364 40366 2Si 40367 2Si 40368 2Si 40369 2Si 40373	-				2SD226B	2SD185	2SD292		
40348V2 40349V1 40349V2 40360 2Si 40361 2Si 40362 40363 40364 40366 2Si 40367 2Si 40368 2Si 40369 2Si 40372 2Si	_		2SD121		2SD226B	2SD185	2SD292		
40349V1 40349V2 40360 25: 40361 25: 40363 40364 40366 25: 40367 25: 40368 25: 40369 25: 40372 25:			2SD121		2SD226B	2SD185	2SD292		
40349V1 40349V2 40360 25: 40361 25: 40363 40364 40366 25: 40367 25: 40368 25: 40369 25: 40372 25:						2SD251			
40349V2 40360 2S 40361 2S 40362 40363 40364 2S 40366 2S 40367 2S 40368 2S 40369 2S 40373						2SD251	-		
40360 25 40361 25 40362 40363 40364 25 40366 25 40367 25 40368 25 40369 25 40372 25 40373						2SD251			
40361 2S 40362 40363 40364 40366 2S 40367 2S 40368 2S 40369 2S 40372 2S 40373	SC1173	2SC204		2SCI155					
40362 40363 40364 40366 25: 40367 25: 40368 25: 40369 25: 40372 25:	SC1173	2SC 204		2SC1155					
40363 40364 40366 25 40367 25 40368 25 40369 25 40372 25 40373							2SA761		
40364 40366 2Si 40367 2Si 40368 2Si 40369 2Si 40372 2Si		2SD181	2SD341			2SD250	2SD340		-
40366 25 40367 25 40368 25 40369 25 40372 25 40373			2SC1055	-		200200	200010		
40367 2 Si 40368 2 Si 40369 2 Si 40372 2 Si 40373	SC782		2SD121			2SC1031		-	
40368 2S 40369 2S 40372 2S 40373	SC782		2SD121			2SC1031			
40369 2S 40372 2S 40373	SD 102		200121		2SD334	2001001		-	
40372 2SI 40373	SD 111				2SD334				
40373	SD 102				2SD334				
					2SD334				
					2SD198				
40375									
	SCI171	2SC1101	2SC1174	2SC1153					
40389	231.71	2SD79	2SD121	2SD356		2SD185			
40390		200.0	200.2.	_00000	2SD198	2SD159			
40391				2SB524	200100	200103			
	SD234			2SD361			2SD292		
40394	J		·	2SB524			LODESE	-	
40406		2SA 607		EUDUZ4	2SA752				
	20515	2SC959	2SC1212A		2SC1407		-		-
	SC1512	230303	EGGIZIZA	,	2301401			2SC614	
	SC512	2SC1266	,	2SC448	-	2SC1069		230014	-
40410	SC1381	2001200	,	200440		2301003	2SA761	-17.5	
40411 25			2SD341			2SD250	2SD340		

		7	>	M/	AXIMU	M R	ATINGS	3					ELL	CTRICA	L CHAR	ACTER	STICS						
TYPE	USE	MATERIA	POLAUTY	Pc 25°C	Tj	Væ	VCEO	Ic	læ	0		hre		hfe	hie	hre	hoe	1 *fαe	NF	Cob	Coxrbb	OUTLINE TO.	NOTE
			2	(mW)	(°C)	(V)	(V)	(mA)	(µA)	Vos(V)	min.	тах.	lc(mA)		(Ω)	(×10)	(µ0)	**fab (MHz)	(dB)	(pF)	(ps)		
40412	SP	S	N		200	250		IA			40		30								-	5	
40412VI	SP	S	_	4W	200	250		IA			40		30								ļ	5	
40412V2	SP	S	_	10W	200	250		IA			40	L	30					-			<u> </u>	5	
40421		G	Р	12.5W		75					62	175						2		. /	<u> </u>	3	
40439		G	Р	5W		320						<u> </u>				<u> </u>	_					3	
40440		G	Р	5W		200												-			-	3	
40462		G		12.5W		40					50					-		0.6		-	-	3	
40484		S		25W		55					50					L		<u> </u>			-	8	
40513	AP	S	_	83W	150	45		6A		_	25	100								_	-	219AB	
40514	AP	S		83W	150	45		6A			25		3A			_						219AA	
40537	SH	S		5W		55		700			50	300	50			-		100	_	-	-	5	
40538	SH	S	<u> </u>	5W		55		700			15		500			_		100		-	<u> </u>	5	
40539	АН	S		5W		55		700		-	15	90	500					100			-	5	
40542	AH	S	-	83W		50		6A		_	20		2.5A			-	_	2.8	₩	1	_	3	-
40543	AH	S	_	83W		60		8A			20	70	3A		_	-		2.8			-		
40544	АН	S	N	7W		50	-	700			35	200	50			-		100	_	-	-	5 66	
40546	_	S	-	8W							50					-	-	25			-	_	
40594	AP	_	-	10W		95		2A		-	70	350	300				_	-	-	-	-	5 5	
40595	AP	S	Р	10W		95		2A		-	70	350	300							-	-	_	
40611	AP	S		5W		25		700	0.5	15	70	500	50						_	-	-	5	
40612	AP	G		12.5W		25	_	5A	3	30	30	150	IA								-	3	
40613	AP	S	-	36W		25	-	4A	2	25	30	120	IA		_			-	_	-	-	66	
40616	AP	S	-	5W		32		700	0.5	15	70		50					ļ		ļ		5	
40618	AP	S	_	36W		30		4A	2	30	30		IA			-			<u> </u>			66	
40621	AP	S	-	36W		32		4A	0.5	30	25	100	1.5A	_		-		_	-			66	
40622	AP	S	N			40		4A	500	- 00	25	100	1.5A						-	-		66	
40623	AP	G	Р	12.5W		45		5A	500	30	50	170				-		-	-				
40624	AP	S		50W		45		6A			20	_	2.5A				_	-				66 5	
40625	AP	S	-	3.5W	<u> </u>	45		1A	0.25	60	100		150					-	1		-	3	
40626	AP	G	Р	12.5W	<u> </u>	55		5A	500	30	50	_	IA			-		┼			-	_	_
40627	AP	S		50W	ļ	55		6A	0.05		20		2.5A			₩					+-	66	
40628	AP	S	N			55	_	IA	0.25	60	-		150			-		-		_	-	5	
40629	AP	S	N		ļ	35	-	4A		ļ.	20	70			-	-		-		-	-	66 66	
40630	AP	S	N	_		40		4A		-	20	70	1.5A			-		-		-	-	66	
40631	AP	S	N	36W		45		4A	_	ļ.,	20	_	2A		-	-		-		-	₩	66	
40632	AP	S	-	50W		60		6A	_		20		3A			-		-	-	-	-	_	
40633	AP	S	N	_		75		8A		<u> </u>	20	70	4A	ļ		-	-	-		-	+	5	
40634	AP	S	Р	5W		75		700			50	_	150	<u> </u>		1	-	+-		+-	+	5	
40635	AP	S	N		-	75		700	_		50		150		-	1	-	-	-	-	1	3	
40636	AP	S	_	115W		95		15A		-	20	70	4A	-	-	-		300	-	1	-	52	
40637	AC	S	N			30	200	2.4	<u> </u>		25	-	750	<u> </u>	+	-	-	300	 	+	1	66	
40850	AP AP	S	-	35W	_	-	300	2A 7A		+	12		1.2A			+		-	 	+	+-	66	
40851			N			450	350	_	_	-	12	-	1.2A		-			+			+	3	_
40852	AP	S	N			450	350	7A	-		10		1.2A 5A	<u> </u>	-	-		-			+	3	
40853	AP	S	N			450	300	IOA	-	<u> </u>	10	_	5A 10A	<u> </u>	-	\vdash		+	-	1	+	3	
40854	AP	S	N		125	450	300 250	15A	50	240			10A 20	25	-	-	-	+	-	-	+	_ J	
40885	SHP		N		135	300		1A 1A	50					25		-	-	 	1	+-	+		
40886	SHF		N		135	350	300		_	280	30	-	20	25	-	1	-	+		+	+	+	
40887	SHF	_	N		135	450	350 40	IA	20	360	30 20	_	50 1.5A	43	-	+	-	+		\vdash	+	66	
40910	AP	S	N	29W	200	50		3A	\vdash		25	_	_	<u> </u>		\vdash	+	+	-	\vdash	+	66	
40911	AP	S	N		200	90	85	4A					1.5A		-	+	-	0.0		+	+	66	<u> </u>
40912	AP	S	N	_	200	140	120	3A	-		20	_	500		-	+	-	0.8		+	+	66	
40913	AP	S	N		200	170	150	3A			20	-	IA			-	-	0.8	-	-	+	220AB	
45190	AP	S	N	40W	150	40	40	7A	100	40	25	100	1.5A			+	-	2	-	+	+	220AB	
45191	AP	S	N	40W	150	60	60	7A	100	60	25	100	1.5A				1	2				LZZUAB	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
40412					2SD198	2SD159		+	_
40412VI					2SD198	2SD159			
40412V2					2SD198	2SD159			
40421								•	
40439									
40440									
40462									
40484					_				
40513	2SDIII	2SD323	2SD125			2SD196	2SD88		
40514	2SDIII	2SD323	2SD125			2SD196	2SD88	-	
40537	2SA 597		_	2SA645			2SA761		
40538	2SA597			2SA645			2SA761		
40539	2SC547	2SC1160			2SC1155				
40542	2SD111	2SD322					2SD339		
40543	2SDIÍI	2SD 322					2SD339		
40544		2SC1160	2SC819	2SC1155		2SC798			
40546		10.00							
40594		2SD285	5	_			2SC756		
40595	2SB502								
40611		2SC1333		2SC1355					
40612			2SB337		2SB128			2SB407	
40613		2SD188			2SD189		2SD338	2SD315	
40616		2SC1160		2SC1155					
40618		2SD188					2SD338		
40621		2SD188					2SD338		
40622		2SD188					2SD338		
40623			2SB337	2SB138	2SB128			2SB407	
40624		2SD188					2SD338		
40625		2SC1098	_	2SC1014			1		
40626			2SB337		2SB128			2SB407	
40627		2SD188		2SC1314			2SD338		
40628		2SC1098		2SC1014					_
40629		2SD188	_	2SC1314	2SC189	_	2SD338		
40630		2SD188		2SCI3I4	2SC189		2SD338		
40631		2SD188		2SC1314	2SC189		2SD338	_	
40632	_	2SD188			2SC189		2SD338		_
40633			-				2SD339	_	
40634			_				2SA761		
40635		2SC1160					20,1101		
40636	2SDIII	2SD151	1		2	2SD250	2SD340		
40637				-					_
40850	2SC1433								
40851	2SC1433							_	
40852	2SC1434					_	_		
40853	2SC1434								
40854	2SC1434								
40855					2SD198				
40886	2SC1433								
40887	2SC1433							-	
40910 .		2SD335				_			_
40911							2SD338		
40912	2SD110	2SD297					2SD336		
40913	200110		2SD126		2SD321		2SD45		
45990	a a	2SD322	LODIEU		200021		2SD316		_
45191		2SD322		_			2SD316		

		¥			AXIMU	M R	ATINGS	i .					EL	ECTRICÁ	LUHAR	AUTER	21102			,		OUTLINE	
TYPE	USE	MATERIAL	POLALITY	Pc 25°C	Tj	Vos	VCEO	le .	I ca	_		hre		hte	hie	hre	hoe	ft *fae **fab (MHz)	NF (IR)	Cob	Coxrbb	TO.	NOTE
				(mw)	(°C)	(V)	(V)	(mA)	(µA)	Vas(V)	min.		lc(mA)		(Q)	(×10)	(µ0)		(dB)	(pF)	(ps)	220AB	
15192	AP	S		40W	150	80	80	7A	100	80	20		I.5A			-		2			-		
15193	AP	S		40W	150	40	40	7A	100	40	25		1.5A			_		2				220AB	
15194	AP	S		40W	150	60	60	7A	100	60	25		1.5A					2				220AB	
15195	AP	S	Р	40W	150	80	80	7A	100	80	20	80	1.5A			-		2				220AB	
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CH2102	SH	S	N	5W		60	60		10	60	50		150			<u> </u>						CHIP	↓ 2N210
CH2270	SH	S		5W		45	45		10	60	50		150	-		-				-	-	CHIP	2N210
			N							_	_					-				-	-	CHIP	2N210
CH2405	SH	S	N	5W		90	90		10	60	50		150			-		_		<u> </u>	-		2N210
CH3053	SH	S	N	5W		30	30		10	60	50		150			-				-	-	CHIP	
CH3439	АН	S	N	10W	<u> </u>	325	325	IA	20	200	30		20							_	-	CHIP	2N343
CH3440	АН	S	N	10W	<u> </u>	250	250	IΑ	50	200	30		20						l		1	CHIP	2N343
CH4036	S	S	Р	7W		65	65		10	60	35		150									CHIP	2N403
CH4037	S	S	Р	7W		40	40		10	60	35		150									CHIP	2N403
CH5320	SP	S	Ν	10W		80	80		10	60	30		250									CHIP	2N532
CH5321	SP	S	N	10W		55	55		10	60	30		250									CHIP	2N532
CH5322	SP	S	Р	10W		80	80		10	60	30		250									CHIP	2N532
CH5323	SP		Р	10W		55	55	i	10	60	30		250									CHIP	2N532
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TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
45192		2SD322	•				2SD316		-
45193		-	2SB333		2SB430		2SB518		
45194			2SB333		2SB430		2SB518		+
45195	_		2SB333		2SB430		2SB518		
43133			230333		200430		238310		
						_			
								*	
CH2102		2SD152				2SD159			
CH2270		2SD152				2SD159			
CH2405		2SD152				2SD159			
CH3053		2SD152				2SD159			
CH3439		-1			2SD199				
CH3440				*	2SD199				
CH4036	_			2SB526					
CH4037		· · · · · · · · · · · · · · · · · · ·		2SB526					†
CH5320		2SD285		200020	-				
CH5321		2SD285		 					
CH5322	2SB502	230203			2SB128A				-
CH5322	2SB502			-	2SB128A				1
CH5323	25B502								
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GENERAL ELECTRIC

	1	ب	>-	МА	XIMUM	RA	TINGS						ELE	CTRICAL	CHAR/	ACTERI	STICS						
TYPE	USE	MATERIAL	POLALITY	Pc 25°C	τį	Vos	V 090	lc	lo	290		hre		hÌe	hie	hre	hoe	#1ae ##1ap	NF	Cob	Coxitab	OUTLINE	NOTE
		¥	og.	(m\)	(7)	(V)	(¥)	(mA)	(μ A)	V08(V)	min.	max.	Ic(mA)	1	(<u>Q</u>)	(×10°)	(µ♂)	*∗fαD (MHz)	(dB)	(pF)	(ps)	TO-	
2N34	A.	G	Р	50		25																	
2N34A	Α	G	Р	50		25																	
2N36	A	G	Р	50	50	20					ļ	ļ						ļ					
2N37	A	G	P P	50 50	20					-	ļ	-		30									
2N38 2N38A	A	G	P	50	20	20								15							-		
2N41	A	G	P	50	20	25				-								٦			\vdash		
2N43	Α	G	Р	240	85	45	30				34		20	30				500				-	GE
2N43A	Α	G	Р	240	85	45	30		-		34	65	20	30				500					GE
2N44	Α	G	Ρ	240	85	45	30				18	43	20					500					GÉ
2N44A	Α	G	Р	240	85	45	30				18	43	20					500					GE
2N46	A	G	Р	50		25						ļ				<u> </u>							
2N47	A	G	Р	50		35										ļ							
2N48 2N49	A	G	P P	50		35 35	<u> </u>	ļ	-														
2N49 2N54	A	G	P	50 200	60	45										_		17-		-	\vdash		
2N55	A	G	Р	200	60	45				\vdash				-		-							
2N56	A	G	P	200		60	45	<u> </u>					 							 	<u> </u>		
2N59	A	G	Р	180	85	25	25									 							
2N59 A	Α	G	P	180	85	40	40														†		
2N60	Α	G	Р	180	85	25	25																
2N60A	Α	G	Р	180	85	40	40												- 00		,		
2N60B	Α	G	Р	180	85	50	50																
2N60C	A	G	Р	180	85	50	60																
2N61	A	G		180	85	25	25																
2N61 A 2N61 B	Ā	G	P	180	85	40	40			-						ļ					ļ		
2N61 C	A	G	P	180	85 85	50 60	50 60																
2N63	A	G	P	102	85	44	44		_	\vdash							-						
2N64	A	G	P	102	85	30	30											-	•	L			
2N65	A	G	Р	102	85	24	24			Н	-												
2N73	sc	G	Р	200			50																_
2N74	S	G	Р	200			50																
2N75	S	G	Р	200			20				- 17												
2N76	Α	G	Р	5 W	60	20												500					
2N77	Α	G	Р	35		25																	
2N79	A	G	P	35 50		35																	
2N80 2N81	A	G	P	50	100	₹25	20							20									
2N82	A	G	P	35	71	20	20				20	60	1	20				-			-		
2N96	A	G	P	50	H	30					-0	30	<u> </u>			\vdash	-	500					
2N104	A	G	Р	1.50	70	30						_						300					
2N105	Α	G	Р	35	50	35																	
2N106	Α	G	Р	102	85	6																	-
2N108	Α	G	Р	50																			
2N109	À	G	Р	165	71	35	25					115	50	50									
2N122	AP	S	N	8.7 W	150	120			oxdot		3		100										
2N130	A	G	Р	85	85	44	40		├														
2N130A 2N131	A	G	P P	1 <u>.00</u> 85	85 30	45	40							14		\vdash							
2N131'A	A	G	P	100	85	45	30					-		27							\vdash		
2N131A	A	G	P	85	85	24	30		\vdash		-			21									
2N132A	A	G	P	100	85	35	20																
2N133	A	G	P	85	85	30										H							
2N133A	A	G	Р	100	85	35	20																

TYPE	TOSHIBA	NEC	НІТАСНІ	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N34	2SB56		2SB77		2SB172				
2N34A	2 SB54		2SB75		2SB172				
2N36									
2N37									
2N38									
2N38A									
2N41								(沖)	
2N43	2SB415	2-SB224		2SB458A	2SB 78 A.			2SB198	
2N43A	2SB415	2SB 224		2 SB 458 A	2SB178A			2SB198	
2N44	2SB415	2SB224	2SB156A	2SB458A	2SB178A			2SB198	
2N44A	2 S B 5 5	2SB 224	2 S B 7 5 A	2SB 458A	2SBI78A			2SB198	
2N46									
2N47									
2N48 -									
2N49				0.					
2N54									1
2N55					- 0		<u> </u>	1	T
2N56				2SB 454					
2N59	2SB415	2 SB223	2 SB370 A		2SB324				
2N59A	2SB415	2SB224	2SB370A	2 SB 454	2SB324				
2N60	2SB415	2SB223	2SB370A		2SB324				1
2N60A	2SB415	2SB224	2SB370A		2SB324				
2N60B									1
2N60C		·							1
2N61	2SB415	2SB223			2SB324				
2N61.A	2SB415	2 SB223	·		2 SB324				
2N61B					2SB177				
2N61C					2SB177				
2N63	2SB56		2 SB75 A		2SB177				1
2N64	2 SB56		2SB75A		2SB177				-
2N65	2SB56		2SB75A		2SB175				1
2N73				2SB 454					
2N74				2SB 454					1
2N75									1
2N76			 						
2N77	2 S B 5 4		2SB75	1 -	2SB175			2SB185	1
2N79						_			+
2N80				-					
2N81			1						1
2N82								1	1
2N96									1
2N104	2 SB55		2SB75 A		2SB175			2SB185	1
2N105	2 SB55	+	2SB75A		2SB175			2 SB 85	+
2N106	2SB440	^	2 SB73	2SB134			2 S B 3 8 2		1
2N108			+					+	+
2N109	2 SB56 A		2SB77 A	2SB135	2SB172			2 SB 185	+
2N 22	200007	2SB241A	+					1	+
2N130	2SB56A		2SB75 A		2SB177		i.		+
2N130A	2SB56A		2SB75A	1	2SB177				+
2N131	2 SB56A		2SB75A		2SB177			· ·	+
2N131	2SB56A 2SB56A		2SB75A		2SB177				+
2N131A 2N132	2SB50A 2SB54		2SB75A	2-SB 135	2SB177			2SB185	+
2N132 2N132A	2SB56 A	+		230 133	2SB173 2SB177		******	230163	
			2 SB75A	250 125				-	+
2N133	2 SB 56 A		2 SB75A 2 SB75A	2SB 135	2SB177 2SB177				

		1	-	M/	AXIMUM	RA	TINGS						- ELE	CTRICAL	_ CHAR.	ACTERIS	STICS						
TYPE	USE	MATERIAL	POLALITY	Pc	Τj	Vae	Vaso	lc	10	080		hfE		hfe	hie	hre	hoe	fi. +fae +=fap	NF	Cob	Coxitab	OUTLINE	NOTE
		MA	POL	25°C (mW)	(0)	(V)	(V)	(mA)	(µA)	V _{CB} (V)	min.	max.	Ic(mA)		(Ω)	(×10)	(µ7)	** (aD (MHz)	(dB)	(pF)	(ps)	TO.	
2N138	А	G	Р	50	50	24																	
2N138A	A	G	Р	150	85	45	30				10		50										
2N139	A	G	P	80	70	16																	
2N140	A	G	P	80	70	16		_		├			<u> </u>	_				ļ					
2N175 2N180	AH	G	P	150	71	30		_		-		-	-								_		
2N181	A	G	P	250	75	30						\vdash			_	+		 				\vdash	
2N185	A	G	P	150	50	20												J					
2N206	A	G	Р	75		30																	
2N207	Α	G	Р	50	65	12	12							35									
2N207A	A	G	Р	50	65	12	12			_				35									
2N207B 2N217	A	G	P	50	65 71	12	12 25				C.F.			35				.			_		
2N217	A	G	P	150 50	71	35 10	25			-	65	115	50			\vdash					-		
2N223	A	G	P	100	65	10	18						 	39		\vdash					 	\vdash	
2N224	A	G	P	250	75	25	Ť				60	120	100			\vdash						П	
2 N 2 2 5	Α	G	Р	250	75	25					60	120	100										
2N226	Α	G	Р	250	75	30					35	105	100										
2N227	Α	G	_	250	75	30				<u> </u>	35	105	100										
2N237 2N238	A	G	-	150	55	45		_		-				0.98		\vdash		500		_		\vdash	
2N238 2N265	A	G	P	50 75	60 85	20	25									\vdash		1.5					
2N270	A	G	P	150	50	25	23			-						+		1.3					
2N272	A	G	Р	150	85	30	10							60									
2N273	A	G	Р	150	85	45	25				30		50			\Box							
2N281	Α	G	Р	167	75	16					120							0.35				-	
2N291	Α.	G	Р	180	50	15						ļ		.30		1					<u> </u>		
2N319 2N320	A	G	P	225 225	85 85		20														-		GE
2N321	A	G	Р	225	85		20								-	+-+						-	GE GE
2N322	A	G	P	140	60	18.	18				34	65	20			\vdash							GE
2N323	Α	G	Р	140	60	18	18				53	125	20			1		1.5					GE
2N324	A	G	Р	140	60	18	18				72	198	20					2					GE
2N331	A	G	Р	200	71	30																	
2N343A	A	S	N	I W	150	60	60					200		0.966									
2N359 2N360	A	G	P P	170	85 85	25 32	30				100 50	300 150	50			\vdash							
2N361	A	G	Р	170	85	32	30				25	75	50			\vdash					-		
2N362	A	G	Р	170	85	25	18							50	-	\Box							
2N363	A	G	Р	170	85	32	28							25									
2N367	S	G	Р	100	75	30								9				300					
2N368	S	G	P	100	75	75	30							19				400					
2N369 2N381	S	G	P	200	75 100	30 50	2c				25	er	20	49 35				500				\vdash	
2N381 2N382	A	G	P	200	100	50	25 25			\vdash	35 60	65 95	20	70		\vdash							
2N383	A	G	P	200	100	50	25	$\vdash \vdash$			75	120	20	90									
2N398	SP	G	Р	50	55	105	105				20		5										
2N398A	A	G	Р	150	100	105	105				20		5	20									
2N402	A	G	Р	180	85	25	20								_	Ш		\Box					
2N403	A	G	Р	180	85	25	20				20		1.0										0.5
2N404A 2N405	S	G	P	150	100 71	40 20	35				30		12					4					GE
2N405 2N406	A	G	P	150	71	20		\vdash										\vdash	-				
2N407	A	G	P	150	71	20																	-
2N408	A	G	Р	150	71	20										П							

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA'	FUJITSU	SONY	SANYO	NOTE
2N138	2SB56A		2SB77 A	2SB136					_
2N138A									
2N139		1.5							
2N140									
2N175	2 S B 5 6		2SB73	2SB134			2SB380		
2N180	2SB56A		2SB77 A	2SB136	2 SB172				
2N181	2SB56A		2 SB 89 A				5		
2N185 ·	2 SB56 A		2SB77 A	2SB136	2SB172				
2N206	2SB94		2 SB75 A	2SB135	2SB173				
2N207	2SB94		2SB75 A	2SB135	2SB173				
2N207A	2SB94		2SB75 A	2SB135	2SB173				
2N207B	2SB94		2SB75A	2SB135	2SB173				
2N217	2SB56A								
2N220	2SB439			2SB134			2SB378		
2N223	2SB56A		2SB156 A	2SB495	2SB324				
2N224	2SB421		2SA555	2SB495	2SB324		-37-		
2 N2 25	2SB421		2SA555	2SB495	2 SB324				
2N226	2SB421		2SA555		2 SB324				
2N227	2SB421		2SA555		2 S B 3 2 4				
2N237	2 S B 5 5	2SB 224	2SB77A	2SB136A					
2N238	2SB56	,	2SB77A	2SB136					
2N265	2SB94		2SB75 A	2SB135	2SB171				
2N270	2SB415		2SB156 A	2SB495	2 SB324				
2N272	2SB56 A	-	2SB77	2SB136					
2N273	2 SB53		2SB75 A	2SB136	2SB177				
2N28I	2SB56	2 SB 164	2SB77 A	2SB136					
2N291	2SB421	2SB 164	2SB156 A	2SB495	2 SB324				
2N319	2SB421	2 SB 164		2 SB495	2SB324	-			1
2 N3 20	2SB421	2SB 64		2 SB495	2SB324				
2N321	2SB421			2 SB495	2SB324				
2N322	2SB421		2SB156A	2SB495	2SB324				
2N323	2SB421	1	2SB156 A	2 SB495	2 SB324				
2N324	2SB42I		2SB156A	2SB495	2SB324				
2N331	2SB53								1
2N343A									1
2N359						,			
2N360	2SB42I			2SB495	2SB324				
2N361	2SB421			2SB495	2SB324				1
2N362	2SB56A		2SB77	2SB136	L G B G L Y				<u> </u>
2N363	2SB56A		2SB77 A	2SB136					†
2N367	2 SB56 A		2SB77A	2SB135					
2N368	2SB56 A		2SB77 A				 		
2N369	2SB56A	-	2SB77 A	2SB135					1
2N381	2SB42I	+	ESBITA	200100	2SB324				1
2N382	2SB421	1	+	+	2SB324				
2N383	2SB421			 	2SB324				1
2N398	200421		+						-
2N398A			+	 	 		_		+
2N402	2SB365	2SB223	2SB370 A	2SB457A	2SB324				-
2N402 2N403	2SB365	2SB223	2SB370 A	2SB457A	2SB324 2SB324				+
2N404 A	230303	230223	2303/0 A	23043/A	2 30324				+
	2004	1	2SB77	2SB135	2SB173				_
2N405	2SB94		2SB77		2SB173 2SB173				
2N406 2N407	2SB94		2SB77	2SB135 2SB136	2301/3		· ·		-
ZN4U/	2SB56A	1	23011	Z 2 B 1 3 D					

		7		МА	MUMIX	RA	TINGS						ELE	CTRICAL	CHAR	CTERI	STICS					OUT IN	
TYPE	USE	MATERIA	POLALITY	Pc 25°C	Tj	Vos	V _{OEO}	lc	lo	80	-	hre		hfe	hie	hre	hoe	fr *fae **fab	NF	Cob	Coxitob	OUTLINE TO-	NOTE
		¥	Ø.	(m₩)	(T)	(V)	(¥)	(mA)	(μ A)	V ₀₈ (V)	min.	max.	Ic(mA)		(Q)	(×10)	(µ0)	**fab (MHz)	(dB)	(pF)	(ps)	10.	
2N460	A	G	Р	200	100	45					16	32											
2N461	Α	G	Р	200	100	45					32	100											
2N462	S	G	Р	150	75	40					20		200					500					
2N464	Α	G	Р	150	85	45	40													, T			
2N465	Α.	G	Р	150	85	45	30																
2N466	Α	G	Р	150	85	35	20															T	
2N467	Α	G	Р	150	85	35	15																
- 1													-										
2N497	Α	S	N	4 W	200	60	60				12	36	200										
2N497A	Α	S	N	5 W	200	60	60		L	ļ	12	36	200	0	ļ			<u> </u>			_		
2N498	Α	S	N	4 W	200	100	100				12	36	200						<u> </u>			\square	
2N505		G	Р																				
2N506	Α	G	Р	50	85	40					25	50	50					500					
2N508	Α	G	P.	200	100	18	18	200	4	16	99	198	20	110	28	7	0.4	2.5	I KHZ 3	18		5	GE
2N508A	Α	G	Р	200	100	30	30	200	4	25	100	200	20	75	26	7	0.4	2.5	I KHZ 3	18		5	GE
2N524	Α	G	Р	225	100	45	30	500	35	30	25	42	20	18	26	1	0.1	800	1 KHZ 5	18		5	GE
2N525	Α	G	Р	225	100	45	30	500	50	30	34	65	20	30	26	1	0.1	1	1 KHZ	18		5	GE
2N526	A	G	P	225	100	45	30	500	70	30	53	90	20	44	26	1	0.1	1.3	I KHZ 3	18		5	GE
2N527	A	G	P	225	100	45	30	500	95	30	72	121	20	60	26	1	0.1	1.5	I KHZ	18	 	5	GE
2N534	A	G	P	25	65	50	50					,		35		† ·		1					
2N535	A	G	P	50	85	20	20			 				35		\vdash		-		<u> </u>	+		
	A	G	Р	50	85	20	20			-				35						 			
2N535A		-	_				_			-	-			35	-					-	-	-	
2N535B	A	G	P	50	85	20	20						30	35		-	'						-
2N536	S	G	P	50	85	20	20			-	100		30			-				-	+		
2N563	S	G	Р	150	85	30	25			-	10	30	<u> </u>		_	-				-	-		
2N564	S	G	P	120	85	30	25				10	30				ļ				_	-		
2N565	S	G	Р	150	85	30	25	ļ			30	50				_				-	-	`	
2N566	S	G	Р	120	85	30	25				30	50									ļ.,		
2N567	S	G	Р	150	85	30	25				50	70									-	<u> </u>	
2N568	S	G	Р	120	85	30	25				50	70									_		
2N570	S	G	Р	120	85	30	20				70	100											
2N571	S	G	Р	150	85	30	10				100	· ·					-×-						
2N572	S	G	Р	120	85	30	10				100										100		
2N586	S	G	Р	250	85	45					35		250		-						\perp	ldot	
2N591	Α	G	Р	50	71	32	32			\Box													
2N592	S	G	Р	125	85	20	20				20			$oxedsymbol{oxedsymbol{oxed}}$									
2N593	S	G	Р	125	85	40	30				30												
2N597	S	G	Р	250	100	45	40				40		100					3					
2N599	S	G	Р	250	100	30	20				100		100					10					
2N609	Α	G	Р	180	85	25	15													Ī			
2N610	Α	G	P	180	85	25	15				T									1			
2N611	Α	G	Р	180	85	25	15	_															
2N612	A	G		180	85	25	15				 												
2N613	A	G	P	180	85	25	15									1							
2N631	A	G	-	167	85	25	20									1		t					
2N632	A	G		167	85	36	20			+-		-						\vdash			t		
2N633	A	G		167	85	35	30		 	+	 					<u> </u>	-	\vdash			+		
2N650	A	G	+	-	+	45	30				30		10	30	+	+		0.75			1	\vdash	
	-	+	-	200	100		_				_		_	_	-	+		_			+		
2N650A	A	G	-	200	100	45	30	-		-	33		10	30	-	+	<u> </u>	0.75			1	\vdash	
2N651	A	G		200	100	45	30	_	-	-	45		10	50	-	1	<u> </u>	1			-		
2N652	A	G	_	200	100	45	30			<u> </u>	80		10	100	_	1	_	1				-	
2N652A	Α	G		200	100	45	30	L	L	$oxed{oxed}$	80		10	100						_			
2N653	Α	G	P	200	100	30	25	-			20		10	30				┖		L	L		

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N460	2SB415		2SB537	2SB454	2SB281				+
2N461	2SB415		2SB537	2SB454	2SB281				
2N462									
2N464	2SB56 A		2SB77A		2SB172				
2N465	2SB56 A		2SB77A		2SB172				
2N466	2SB56 A		2SB77A		2SB172				
2N467	2SB56 A	<u> </u>	2SB77A		2SB172				
	-								
2N497	2SC547			2SC976		2S C 866		2SC614	
2N497 A	2SC547	T		2SC976		2S C 866	1	2SC614	
2N498	2SC514		2S C 685					2SC614	
2N505	0								
2N506	2SB54		2SB75A		2SB177				
2N508	2SB415	2SB226	2SB156A		2SB324				
2N508A	2SB415	2SB 226			2SB324				-
2N524	2SB42I	2SB226			2SB324				-
2N525	2SB421	2SB226			2SB324				-
2N526	2SB421	258226			2SB324			707	
2N527 2N534	2SB42I	2SB226	000754	-	2SB324 2SB177				+
2N534 2N535	2SB55 2SB54		2SB75A 2SB75	-	2SB177 2SB173			2SB186	
2N535A	2SB54		2SB75		2SB173			2SB186	+
2N535B	2SB54	-	2SB75		2SB173			2SB186	
2N536	2SB54		2SB75		200110			2SB186	1
2N563	2 S B 5 6 A		2SB77 A		2SB172			2SB187	
2N564	2 S B 56 A		2SB77 A		2SB172			2SB187	+
2N565	2 S B 56 A	· ·	2SB77A		2SB172			2SB187	
2N566	2SB56A		2S B77 A		2SB172		· ·	2SB187	
2N567	2 S B 5 6 A		2SB77A		2SB172			2SB187	
2N568	2 S B 56 A		2S B 77 A		2SB172			2SB187	
2N570	2 S B 5 6 A		2SB77A		2SB172	_		2SB187	
2N571							_		
2N572									
2N586								-	
2N591	2SB54	-	2 SB75 A	2SB135	2SB172				
2N592									
2N593								_	
2N597		_						_	
2N599	000000	000000		000453.	000001				
2N609 2N610	2SB364	2 S B 223	2S B 370 2S B 370	2SB457 A	2SB324			.	
2N611	2SB364 2SB364	2SB223 2SB223	2S B 370 2S B 370	2SB457 A 2SB457 A	2SB324				
2N612	2SB364 2SB364	2SB223 2SB223	2SB370 2SB370	2SB457 A	2 SB324 2 SB324				
2N613	2SB364	2SB223	2S B 370	2SB457A	2SB324 2SB324			-	
2N631	2SB56	200223	2SB77	Z S D 43 I M	2SB172			-	
2N632	2SB56A		2SB77	_	2SB172				-
2N633	2SB 56A		2SB77 A	_	2SB172				
2N650	2SB415		2SB156A		2SB402			 	
2N650A	2SB415		2SB156A		2SB402	-		-	
2N651	2SB415		2SB156A		2 SB 402				-
2N652	2SB415		2S B 156 A		2SB 402			-	
2N652A	2SB415		2S B 56 A		2SB 402				
2N653	2SB415	i	2 S B I 56 A		2SB324		-:		

	1	_	_	M	AXIMUM	RA	TINGS	-					ELE	CTRICAL	_ CHAR/	ACTERI	STICS						
TYPE	uee	R.	E	Pc						280	Г	hfe		hfe		T		fτ				OUTLINE	NOTE
TITE	USE	MATERI	POLALITY	25°C (mW)	(Tj	Vos (V)	Voso (V)	(mA)	(μ A)	Vos(V)	m in .	max.	Ic(mA)	me	hie (Ω)	hre (×10)	hoe (μδ)	*fae **fab (MHz)	· MF (dB)	Cob (pF)	Coxrbb [*] (ps)	TO.	NOTE
2N654	Α	G	Р	200	100	30	25		()2.11)	1000	40		10	50				(MIZ)	(== /		(7-7		
2N655	A	G	Р	200	100	30	25				70		10	100		+							
2N656	A	s	N	4 W	200	60	60				30	90	200	100									
2N656A	A	s	N	5W	200	60	60				30	90	200						_				
2N657	A	S	N	4W	200	100	100				30	90	200								-		
2N680	A	G	Р	150	75	20	20				18	165	50					15			<u> </u>		
2N696A	S	S	N	800	300	60	35				20	60	150	15				40					
2N697	S	S	N	600	175	60	40				40	120	150	15				40					
2N697A	s	S	N	800	300	60	35				40	120	150	25				50					
2 N698	S	S	N	800	20,0	120	80				20	60	150	15				40					
2N699	S	S	N	600	175	120	80				40	120	150	35				50					
2N702	SH	S	N	300	175	25	25				20	60	10					70					
2N703	SH	S	N	300	175	25	25				40	100	10					70					
2N705	SH	G	Р	300	100	15	15		-		25		10								ļ		
2N706	SH	s	N	300	175	25	20				20		10					200					
2N706A	SH	S	N	300	175	25	20				20	60	10	L				200					
2N706B	SH	S	N	300	175	25	15				20	60	10		ļ	<u> </u>		200			_		
2N708	SH	S	N	360	200	40	20				30	120	10					300					
2N718	АН	S	N	400	175	60	40				40	120	150			<u> </u>		50		<u>L.</u>	_		
2N718A	AH	S	N	500	200	75	50			<u> </u>	40	120	150	30				60			 	 	
2N728.	SH	S	N	4 W	175	15	15		L	_	20	200	10					100		<u> </u>			
2N729	SH	S	N	4 W	175	30	30	-			20	200	10					100					
2N753	SH	S	N	300	175		20			· ·	40	120	10					200			ļ		
2N759 2N760	A	S	N	500	200	45 45	45	_						36 76		-		50	`			-	
2N869	AH	S	N	500	200	45	45 18				20	120	10	76				50 100.					400
211003	An	3	17	360	200	45	10				20	120	10	-		-		100.					
		-	-					-								 -							
	_	-		-																			
	<u> </u>	-	-		-			_	-							-							
2N911	Α	S	N	500	200	100	80				35		10	36				50			_		
2N912	A	S	N	500	200	100	80	_			15		10	18				40			-		
2N914	SH	s	N	360	200	40	20				30	120	10					300					
2N915	AH	s	N	360	200	70	50	_		-	50	200	10	50				250		,			
2N916	AH	s	N	360	200	45	25				50	200	10	50				300				-	
2N929	Α	s	N	600	175	45	45				40	120	0.01	150				1					
2N930	Α	S	N	600	175	45	45				100	300.	0.01	150				-					
2N956	ΑН	s	N	500	200	75	50				100	300	150	50	- 8			70					
2N995	АН	s	Р	360	200	20	15				35	140	20					100					
2N 1008	Α	G	Р	300	85	20	15																
2N1008A	Α	G	Р	300	85	40	35		0					40									
2N1008B	Α	G	Р	300	85	60	55							20									
2N1015	SP	s	N	150	150	30	30				10		2										
2N1015A	SP	S	N	150	150	60	60				10		2			Ш							
2N1047	AP	S	N	40 W	200	80					12	36	500			Ш							
2N1049	AP	S	N	40 W	200	80				\Box	30	90	500								<u> </u>		
2N1050	AP	S	N	40 W	200	120					30	90	500			\vdash		500	-				
2N1056 2N1057	Α.	G	Р	240	100	70	50				18	43	20					500					
2N1057 2N1058	Α	G	P	240_	100	45	45				34	90	20	10				4					
		G	N	50	75	20	20			_													
2N1059 2N1067	A CD	G	N	180	75	40	15	-			-	75	200					0.75					
2N1067 2N1068	SP	S	N	5 W	1.75	60	30			-	15	75	200			-		0.75					
2N1068 2N1069	SP	S	N	10.W	175	60	30	\dashv		\dashv	Ĩ5	75	750						•				
2N1069 2N1070	SP SP	S	N	50W	175	60	45			\dashv	20	50	1.5A	-				0.5					
Z141070	3F	3	N	50W	175	60	45				20	50	1.5A					0.5					

					-				
TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOT
2N654	2SB415			2SB453	2SB324			2SB186	
2N655	2SB415			2SB453	2SB324			2\$B186	
2N656	2SC481	2SC57	2SC 685	2SC1018	2SC697A	2SC1082		2SC614	
2N656A	2SC481	2SC57	2SC 685	2SC1018	2SC697A	2SC1082		2SC614	
2N657	2SC981	2SC698	2SC 685	2SC1018	2SC697A		2SC795	2SC614	
2N680	1.				1.0				
2N696A	2SC503	2SC959	2SC479		2SC696	2SC215	2SC756		
2N697	2SC503	2SC959	2SC479		2 S C 6 9 6	2SC215	2SC756		
2N697A	2SC503	2 S C 9 5 9	2SC708						
2N698	2SC510	2SC49	2SC708A		2SC696A	2SC1069	2SC1124		
2N699	2SC510	2SC49	2SC708A		2SC696A	2SC1069	2SC1124		
2N702	2SC984	2SC67	2SC907A		2SC563	2SC203		2SC423	
2N703	2SC984	2SC67	2SC907A		2SC563	2SC203		2SC423	
2N705						· ·		2SC423	
2N706	2SC984	2SC68	2SC907A	2SC302	2SC563	2SC203	2SC1128	2SC423	
2N706A	2SC984	2SC68	2SC907A	2SC302	2SC563	2SC203	2SC1128	2SC423	
2N706B	2SC984	2SC67	2SC907A	2SC302	2SC563	2SC203	2SC1128	2SC423	
2N708	2SC979	2SC67	2SC907A	2SC302	2SC563	2SC203		2SC423	
2N718	2SC979	2SC69 1	2SC907A	2SC302					
2N718A	2SC979	2SC69	2SC907A	2SC302					
2N728	2SC555	1		2SC447					
2N729	2SC555			2SC447					1
2N753	2SC979	2SC68	2SC907A	2SC302	2SC563	2SC203	2SC1128	2SC423	
2N759	2SC979	2SC67	2SC907A	2SC302	2SC563	2SC203		2SC423	
2N760	2SC979	2SC67	2SC907A	2SC302	2SC563	2SC203		2SC423	
2N869	2 S C 9 7 9	2SC67	2SC907A	2SC302	2SC563	2SC203		2SC423	1
				6		 			
2N911	2SC510		2SC708						
2N912	2SC510		2SC708						
2N914	2SC979	2 S C 6 7	2SC907A	2SC302	2SC538A	2SC203		2SC423	-
2N915	2SC979		2SC907A	2SC302	2SC538A	2SC202		200420	
2N916	2SC979	2SC67	2SC907A	2SC302	2SC538A	2SC203		2SC423	
2N929	2SC998		20000	-	200000	200200		223420	
2N930	2SC998					·			1
2N956	2SC495		i						
2N995				100					
2N1008	2SB415	2 SB223	2SB370A	2SB454	2SB324				1 -
2N1008A	2SB415	2 SB224	2SB370A	2SB454				-	
2N1008B	2SB415	2SB2I8	2SB370A	2SB454					
2NI015	202410				-				-
2N1015A						-			
2N1047			400				-		-
2NI049			T						
2N1050			<u> </u>			*			
2N1056									
2N1057								-	
		-							
		 			-				-
2N1058								1	1
2N1058 2N1059	2SC547	250781	-	2SC1017					
2N1058 2N1059 2N1067	2SC547	2SC781 2SC635		2SC1017 2SC977					
2N1058	2SC547 2SC549 2SC520	2SC781 2SC635		2SC1017 2SC977 2SC1021					

		٧٢	>	MA	XIMUM	RA	TINGS						ELE	CTRICAL	CHAR	ACTERI	STICS						
TYPE	USE	MATERI	POLALITY	Pc 25℃	Tj (T)	Vos	V 080	Ic	le	_		hee		hfe	hie (Q)	hre (×10)	hoe (μδ)	fT *fae **fab	NF	Cob	Coxitob	OUTLINE TO-	NOTE
2111004		3	ā.	(m₩)	(7)	(V)	(V)	(mA)	(μA)	AOB(A)	min.	max.	Ic(mA)		(2)	(X10)	(μ0)	(MHz)	(dB)	(pf)	(ps)		
2N1084 2N1085																		-					
2N1090	S	G	N	120	85	25				 	30		20					5					
2N1091	S	G	N	120	85	25					40		20					10					
2N1092	SP	s	N	2 W	175	60	30				15	75	200					0.75			_		
2N1097	Α	G	Р	200	100	18	18				34	90	20					1					
2N1098	Α	G	Р	200	100	18	18				25	90	20					١					
2N1102	Α	G	N	180	75	40	25				25	50	35					10					
2N1107	AH	G	Р	30		16					<u> </u>							40			_		
2N1108	AH	G	P	30		- 16										ļ		35					
2N1109	AH	G	P P	30		16 16			_	-			L			-		35 35		-			
2N1110 2N1128	AH	G	P	150	85	25	18							70		-		35				- 17	
2N1129	A	G	P	150	85	25	25				100	200	100	70									
2N1130	A	G	P	150	85	30				-	50	165	100			<u> </u>				 	-		
2N1144	A	G	P	175	85	16	16				34	90	20					-		-	_		
2N1145	A	G	Р	175	85	16	16				25	90	20					1					
2N1149	Α	s	N	150	175	45					9	20	25	0.9				- 4					
2N1150	Α	S	N	150	175	45					18	40	25	0.948				5					
2N1151	Α	S	N	150	175	45					18	90	25	0.948				8					
2N1153	Α	S	N	150	175	45					76	333	25	0.987				7					
2N1155	Α	S	N	750	150	80	0.5	200		-	9		50	0.9					IKHZ	0.0			0.5
2N1175	` A	G	P P	200	85 85	35 35	25	200	-		70	140	20					1.5	1 KHZ	26 26		5	GE GE
2N1175A 2N1177	AH	G G	P	200 80	71	30	25	200			70	140	20			\vdash		1.5	. 6	20		3	
2N1177 2N1186	A	G	P	200	100	60	45						10	30		+		0.75		-	_		
2N1187	A	G	P	200	100	60	45				45	-	10	50				1	,				
2N1188	A	G	P	200	100	60	45				80		10	100				1.2					
2N1191	Α	G	Р	200	100	40	25				20	80	10	30									
2N1192	Α	G	Р	200	400	40	25				40	135	10	50									14
2N1193	A	G	Р	200	100	40	25				70	300	10	100									
2N1206	AH	S	N	3 W	200	60	60			ļ	20	80		25			•	10					
2N1265	AH	G	P	-50	85	12	10							25		ļ.,		600					
2N1266	AH	G	P P	80	85	10						105		10 20				\vdash					
2N1273 2N1274	A	G	P	250 250	100	15 25	15 25		<u> </u>		27 27	165 165	50 50	20		-		\vdash					
2N1274 2N1287	A	G	P	300	85	25	25				21	100	. 30	40									
2N1287A	A	G	P	300	85	25	25							60									
2N1335	AHP	S	N	800	175	120	45			П	10	150	30					70					
2N1336	AHP	s	N	800	175	120	45				10	150	30					70					
2N1337	AHP	S	N	800	175	120	45				10	150	30					70					
2N1338	AHP	S	N	800	175	80	25				10	150	30			\Box		70					
2N1339	AHP	S	N	800	175	120	50				10	150	30					70					
2N1340	AHP	S	N	800	175	120	50			Ш	10	150	30			<u> </u>		70		*			
2N1341	AHP	S	N	800	175	120	50			Н	10	150	30					70				-	
2N1342 2N1352	AHP	S	N P	150	175 85	150 30	65 20			٠,	10 40	150	30			-		70		ļ			
2N1382	A	G	P	250	100	25	25				45	165	50	40					-			3.	
2N1383	A	G	Р	250	100	25	25				27	165	50	20					-		-		
2N1408	S	G	Р	150	100	50	50				10			10									
2N1409	SH	S	N	800	200	30	25				15	45	150					200					
2N1410A	SH	s	N	800	200	30	30				30	90	150					130					
2N1413	S	G	Р	200	85	35	25	200			25	42	20	20				800	1 KH2 6	26		5	GE
2N1414	9	G	Р	200	85	35	25	200			34	65	20	30		1		1	6	26		5	GE
2N1415	S	G	Р	200	85	35	25	200			53	90	20	44				1.3	I KHZ 6	26		5	GE

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N1084									
2N1085									
2N1090									
2N1091									ļ
2N1092	2SC1237			2SC778					-
2N1097		_	-						
2N1098									<u> </u>
2N1102 2N1107	,		-	-			-	 	
2N1107 2N1108				-			-	 	-
2N1109							-		
2N1110		-	-				,		
2N1128	2SB56		2SB77		2SB172		<u> </u>	2SB187	
2N1129				-					
2N1130									
2N1144									
2N1145									
2N1149	2SC376	2SC943			2SC828A	2SC965	2SC403B	2 S C 9 3 3	
2N1150	2SC376	2SC943			2SC828A	2SC965	2SC403B	2SC933	
2N1151	2SC376	2SC943			2SC828A	2 S C 9 6 5	2SC403B	2SC933	
2N1153	2SC376	2SC943			2SC828A	2SC965	2SC403B	2SC933	
2N1155			·	7.			ļ		
2N1175	2SB415		2SB77A	2SB458A	2SB324				
2N1175A	2SB415		2SB 77 A	2SB458A	2SB324			<u> </u>	
2N1177	2SB415	- 0.	2SB 77 A	2SB458A	2SB324				
2N1186	2SB421			2SB458B	2SB 281		-		
2N1187	2SB421			2SB458B	2SB281		-		-
2N1188 2N1191	2SB421 2SB421		00 D 77 A	2SB458B	2SB281				
2N1191 2N1192	2SB42I		2SB77A 2SB77A	2SB458B 2SB458B	2SB281 2SB281				-0.00
2N1192 2N1193	2SB421		2SB77A	2SB458B	2SB281				1.0
2N1206	200421	T	238777	2034308	200201		*		
2N1265	-2SB54		2SB75	2SB135	2SB173			2SB186	
2N1266	2SB54	0.	2SB75	2SB135	2SB173			2SB 186	
2N1273			1						
2N1274									
2N1287	_								
2N1287A									
2N1335	2S C510	2SC49	2SC 153	2SC309	2S C 696 A	2S C 1069	2SC1124		
2N1336	2S C 510	2SC49	2SC 153	2SC309	2S C 696 A	2S C 1069	2SC1124		
2N1337	2SC510	2S C 49	2S C 153	2SC309	2SC696A	2SC1069	2SC1124		
2N1338	2 S C 5 0 3	2SC 97A	2SC 708A	2SC307	2SC696	2SC202			ļ ·
2N1339	2SC510	2SC49	2SC153	2SC309	2SC696A	2SC1069	2SC1124		
2N1340	2S C 510	2SC 49	2SC153	2S C309		2SC1069	2SC1124	<u> </u>	
2N1341	2SC 510	2SC 49	2SC153	2SC309		2SC1069	2SC1124		-
2N1342	2SC 95		2SC153	2SC310			2SC1124		
2N1352							<u> </u>		
2N1382							_		
2N1383 2N1408	20055	,	200774	_	200177				
	2SB 55	30.0310	2SB77A		2SB177			-	
2N1409	2SC998 2SC998	2SC319 2SC319			2SC 822 2SC 822				
2N1410A 2N1413	2SB415	.230319	-	2SB457	2SC 822 2SB324		-		+
2N1413 2N1414	2SB415 2SB415			2SB457 2SB457	2SB324 2SB324				+
2N1414 2N1415	2SB415	-		2SB457	2SB324 2SB324		_	 	

		N.	Ţ		XIMUM	RA*	TINGS						ELE	CTRICAL	CHARA	CTERI	STICS			1		OUTLINE	
TYPE	USE	MATER	POLALITY	Pc 25°C	Tj	Vos	Vœ	lc	I e	390		hfe		hfe	hie	hre	hoe	fr *fae **fap	NF	Cob	Coxitab	TO.	NOTE
		ì	9	(mW)	(3)	(V)	(V)	(mA)	(μA)	Vos(V)	min.	max.	Ic(mA)		(<u>Q</u>)	(×10)	(μδ)	(MHz)	(dB)	(pF)	(ps)		
2N1420A	AH	S	N	800	200	60	40		-		100	300	150					60					
2N1445	AP	S	N	4 W	200	120	120				20	80	200			ļ		75			_		
2N1446	Α	G	Р	200	85	45	25				16	45	20	16				0.8		_			
2N1447	A	G	Р	200	85	45	25			ļ	35	65	20	30				1.5		-			
2N1448	A	G	Р	200	85	45	25			_	50	90	20	45				2					
2N1449	A	G	Р	200	85	45	25				70	125	20	60				2.5			-		
2N1451	Α	G	Р	200	85	45	20		-	_	20	65	20								├		
2N1452	A	G	Р	200	85	45	20			<u> </u>	30	90	20								-		
2N1470	AP	\$	N	55 W	200	60	60			<u> </u>	15		IA							_	\vdash		
2N1471	S	G	Р	200	85	12	15			_				100				3			-		
2N1479	SP	s	N	5 W	200	60	60			_	20	60	200								-		
2N1480	SP	\$	N	5 W	200	100	100			_	20	60	200				,				_		
2N1481	SP	S	N	5W	200	60	60				35	100	100									\vdash	
2N1482	SP	S	N	5 W	200	100	100				35	100	100										
2N1483	SP	S	N	25 W	200	60	60				25	60	60							_	<u> </u>		
2N1484	SP	S	N	25 W	200	100	100			1	20	60	750			_					_		
2N1485	SP	S	N	25W	200	60	60				35	100	750								<u> </u>	\sqcup	
2N1486	SP	S	N	25 W	200	100	100				35	100	750	L				L.			<u> </u>	\sqcup	
2N1505	AHP	S	N	800	175	50	20				7	100	0.1A					70			ļ		
2N1506	AHP	S	N	800	175	60	20				10	100	0.1A					140					
2N1506A	AHP	S	N	800	200	80	50				10	100	0.IA					140					
2N1524	AH	G	Р	80	85	24								17									
2N1525	AH	G	Р	80	85	24								17									
2N1613	S	s	N	800	200	75	50				40	120	150	30				60					
2N1613A	S	s	N	ΙW	200	75	50				40	120	150	30				60					
2N1613B	S	S	N	I W	200	120	55	CH		-	40	120	150	30				60	1				
2N1691	AP	S	N	40W	200	120	120				20	60	500					90			}		
2N1700	S	S	N	5 W	200	60	60				20	80	100					0.4					
2N1701	S	S	N	25 W	200	60	60				20	80	300					0.35					
2N1705	Α	G	P	200	100	18	12							70							Τ		
2N1706	A	G	P	200	100	25	18				60	120	20	50									
2N1707	A	G	Р	200	100	30	25				30	150	10	40		i							
2N1708	SH	s	N	IW	175	25	12				20		10					200					
2N1709	AHP	s	N	15W	175	75	30				7.5	75	0.35A					175					
2N1710	AHP	S	N	15W	175	60	30				4	100	0.35A					140					
2N1711	S	S	N	800	200	75	50				100	300	150	50				70					
2N1711A	AH	S	N	I W	200	75	50				100	300	150	50				70	_				
2N1711B		S	N	1 W	200	120	55				100	300	150	50				70					
2N1714A	_	S	N	20W	175	90	60				20	60	200					16					
2N1715	AP	S	N	20 W	175	150	100			\	20	60	200					16					
2N1716	AP	\$	N	20W	175	90	60				40	120	200					16					
2N1717	AP	S	N	20 W	175	150	100				40	120	200					16					
2N1718	AP	s	N	20W	175	90	60				20	60	200					16		1			_
2N1720	AP	S	N	20 W	175	90	60	-			40	120	200					16					
2N1768	S	S	N	40W	200	60	40				35	100	750		1.			600		†	1		
2N1769	\$	\$	N	40 W	200	100	55	-		-	35	100	750					600			\top		
2N1837A	SH	\$	N	800	175	80	30		-	1	40	120	0.15A	 				140		t			
2N1886	AHP	5	N	20W	175	60	60			_	20	80	0.15A	\vdash		\vdash		2			†		
2N1889	AH	S	N	800	200	100	80			+	40	120	150	30				50			 	 	_
	AH	S	N	800	200	100	80			1	100	300	150	50			 	60		+	_		
2N1890 2N1893	_	_	_	800			_		<u> </u>	+	_	120		_	-	-		50		-	 		
	ΑH	S	N	225	200	120	100	F00		-	40		150	30	700	2	15	-		18	1	-	GE
2N1924	A	G	Р	_	100	60	40	500	-		34_	65	20	_	_		_	1 2		18	+	5	GE
2N1925 2N1926	A	G	P	225	100	60	40	500	_	-	53	90	20	44	1200	3	20	1.3		18	1		GE
	A"	G	P	225	100	60	40	500	I	1	72	121	20	60	1500	4	25	1.5		18	1	5	G E

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N1420A									+
2N1445	2SC510	2SC49	2SC708A		2SC696A		2SC1124		
2N1446	2SB226			2SB 454	2SA720				T
2N1447	2\$B226			2SB454	2SA720				-
2N1448	2SB226			2SB454	2SA720				
2N1449	2SB226			2SB 454	2SA720				+
2N1451	2\$B226			2SB454	2SA720				
. 2N1452	2SB226			2SB454	2SA720				_
2N1470				200101	2011120				10
2N1471								+	
2N1479		2SC698		2SC1017		2SC866		_	
2N1480		2SC698		2301017		200000	 		1
2N1481		2SC698	1	2SC1017	9	2 S C 866			
2N1482		2SC698		-					+
2N1483		20000						-	+
2N1484		 					-		+
2N1485	-						-		+
2N1486		_	+				-	_	+
2N1505	2SC1382	2SC139	1	200775	25.01284	2SC797			_
2N1506	2SC1382	2SC139		2SC775 2SC775	2SCI384 2SCI384	2SC797			-
2N1506A	2SCI382	2SC149 :	+	2SC775	2301364				
2N1524	2001302	230143	-	230773		2SC1069	_		+
2N1525									
2N1613	2SC498	2SC97A	2SC479		20,000	20,0000	0001050		
2N1613A	230430	23037A	230479	2SC1018	2SC696	2SC202	2SC1056		
2N1613B		2SC960	_	2SC1018					
2N1613B		230300		2301018					+
2N1700		2SC1098	2SC819	2SC 1155	2SC1226A				
2N1701		2301038	230013	230 1133	23C1226A				+
2N1705	2SB189		200.00		2SB174	-		a C D L or	-
2N1705 2N1706	2SB189		2SB89					2SB185	
2N1707	2SB189		2SB89	1	2SB174 2SB173			2SB185	
2N1707 2N1708	230183		2 SB 89		2351/3			2SB185	
2N1709	2SC489			200727					
2N1710	2SC551	2SC598	_	2SC737 2SC737		*	_		-
2N1711	230331	230396	000470			20.0012		_	
			2SC479	2SC307 .		2SC212			
2N1711A 2N1711B				2SC1018					-
2N1711B	2SC508	2SC92			200001	· · ·			-
2N1714A 2N1715	2SC508 2SC508	2SC92 2SC92			2SC901				-
2N1715 2N1716			1		2SC901				
	250508	2SC92	 		2SC901				
2N1717 2N1718	2SC508 2SC508			-	2SC901 2SC901	/			
2N1718 2N1720	2SC508 2SC508		 		2SC 901 2SC 901				
2N1720 2N1768	2SC508 2SC493						-		
	2SC493 2SC492		-		2SC901				
2N1769		00.0000	1	2005		0000			
2N1837A	2SC503	2SC959 2SC92		2SC307		2SC202	_		
2N1886	2SC510	2SC92 2SC92	0007004	2SC308	20.000.4	0001000	2001125		
2N1889			2SC708A		2S C696 A	2SC1069	2SC1124		
2N1890	2SC510	2\$092	2SC708A	2SC308	2SC696A	2SC1069	2SC1124		
2N1893	2SC510	2SC92	2SC708A	2SC309	2SC696A		2SC1124		
2N1924	2SB421			2SB454				17,000	-
2N1925	2SB421			2SB454					
2N1926	2SB421			2SB454					
2N1943							11-11		

		_	_	MA	XIMUM	RA	TINGS						ELI	CTRICAL	L CHAR	ACTERI	STICS						
TYPE	USE	ERIA	É	Pc	Tj	Va	Voeo	1c	10	280		hre		hfe	hie	hre	hoe	ft	NF.	Cob	Coxitab	OUTLINE	NOTE
,,,,	1000	MATERI	POLALI	25°C (mW)	(3)	(V)	(V)	(mA)	l .	V _{CB} (V)	min.	max.	Ic(mA)	"""	(Ω)	(×10)		* fae * * fao (MHz)	(dB)	(pF)	(ps)	10-	NOIL
2N1973	Α	٠S	N	800	200	100	80				75		10	76				60					
2N1974	Α	S	N	800	200	100	80				35		10	36		_		50	 				
2N1975	Α	S	N	800	200	100	80			T .	15		10	18				40					
2N1997	S	G	Р	250	100	45	15				40	200	100					3					
2N1998	S	G	Р	250	100	35	15				70	225	100	20				5.6					
2N2007	sc	S	N	800	200	175	110				30	90	10					40					
2N2017	Α	S	N	1 W	200	60	60				50	200	200										
2N2033	\$P	S	N	5 W	200	80	60				20	60	500					ı					
2N2034	SP	S	Ν	14 W	200	80	60				20	60	ΙA					- 1					
2N2035	SP	S	N	17W	200	80	60				20	60	1.5A	_				1					
2N2036	SP	S	Ν	17.5W	200	80	60				20	60	2 A					- 1					
2N2094	L	G	Р	100	85	25	25				40		1	40				30					
2N2102	SH	S	N	5 W	200	120	120				35		10	35									
2N2102A	SH	S	N	∣Ŵ	200	120	120				40	120	150	30									
2N2106	Α	S	N	I W	150	60	60				12	36	200										
2N2107	Α	S	N	I W	150	60	60				30	90	200									1	
2N2108	A	S	N	⊢ W	150	60	60				75	200	200								<u> </u>		
	<u></u>		L																				
2N2171	Α	G	Р	200	100	50	25				110	250	20	120								L	
2N2172	S	G	Р	200	85	20	15				30	150	10	0.97				5					
2N2173	SH	G	Р	240	100	25	15				30		200								ļ		
2N2192	SH	S	N	800	200	60	40				100	300	150			Ш							
2N2192A	SH	S	N	800	200	60	40				100	300	150										
2N2192B	SH	S	N	800	200	60	40				100	300	150										
2N2193	SH	S	N	800	200	80	50			L	40	120	150										
2N2193A	SH	S	N	800	200	80	50				40	120	150									-	
2N2193B 2N2194	SH	S	N	800	200	80	50				40	120	150										
2N2194 2N2194A	SH	S	N	800	200	60	40				20	60	150										
2N2194A	SH	S	N	800	200 200		40				20	60	150								L		
2N2194B	AP	S	-	2 W	_	60 80	-				20	60	150	20							-		
2N2197	AP	S	N	2 W	175 175	80	60				30 75	90 200	200	30 30									
2N2218	SH	S	N	800	175	60	30				40	120	150	30				250					
2N2218A	SH	S	N	800	175	75	40				40		0.15A	30			_	250					
2N2219	SH	S	N	800	175	60	30				100	300	150	30				250					
2N2219A	SH	S	N	800	175	75	40	-		\dashv	100		0.15A	50				300					
2N2221	SH	s	N	500	175	60	30			\dashv	40	120	150	30				250					-
2N2221A	SH	S	N	500	175	75	40				40		0.15A	30				250					
2N2222	SH	S	N	500	175	60	30				100	300	150					250			_		
2N2222A	SH	S	N	500	175	75	40				100		0.15 A	50				300					
2N2224	SH	S	N	800	175	65	40	\neg		\Box	35	115	10	-				250					
2N2239	Α	S	N	i W	150	60	50				30	200	200										
2N2270	A	S	N	5 W	200	60	45				30		IA	50									
2N2297	АН	S	N	800	200	80	35				40	120	150		,			60					
2N2330	SC.	S	N	800	150	30	20				50		10					100					
2N2339	ΑP	S	N	40 W	200	60	40				6		1.5A					0.7					
2N2374	Α	G	Р	250	100	35	35				100	300	100	100							\neg		
2N2375	Α	G	Р	250	100	35	35				35	110	100	35									
2N2376	Α	G	Р	250	100	35	35				35	110	100	35									
2N2410	SH	S	N	800	200	60	30				30	120	10					200					
2N2430	Α	G	Ν	280	75	32	32				60	210	A 1.0					10					
2N2443	АН	S	N	800	200	120	100				50	150	50	45				50				T	
2N2447	Α	G	Р	75	85	45	24							25									
2N2448	Α	G	Р	75	85	45	24							25									
2N2449	Α	G	Ъ	75	85	35	20							50									

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N1973	2SC510	2SC49	2SC153	2SC309	2SC696	2SC1069	2SC1124		
2N1974	2SC510	2SC49	2 SC 153	2SC309	2SC696	2SC1069	2SC1124		
2N1975	2SC510	2 S C 4 9	2SC153	2SC309	2SC696	2SC1069	2SC1124		
2N1997						2SB304 A			
2N1998	2 SB 201				2SB280				
2N2007	2SC507					2SC627			
2N2017	2SC510	2SC49	2SC708A	2SC1018	2SC696	2SC1069	2SC1124		
2N2033			2SC315		2SC574			2SC614	
2N2034			2SC118		2 S C 5 8 4			2SC616	
2N2035			2SC118		2SC584			2SC616	
2N2036			2SC 18		2SC584			2SC616	
2N2094	2SB291	2SB 264						2SB303	
2N2102									
2N2102A					2SC1012				
2N2106	~_		_	2SC1018					
2N2107				2SC1018					
2N2108				2SC1018	1	_			
2N2171	2SB421				2SB28I				
2N2172	2SB415		. 2SBI56A	2SB495	2SB324				
2N2173	2SB415		2 S B I 56 A	2SB495	2 SB324				
2N2192	2SC503	2SC138		2SC1018					-
2N2192A	2SC503	2SC138		2SC1018			-		
2N2192B	2SC503	2SC 138		2SC1018					
2N2193	2S C 512			2SC1018					
2N2193Å	2SC512			2SC1018					
2N2193B	2S C 512			2SC1018				· · · · · ·	
2N2194	2SC503	2SCI38		2SC1018					
2N2194A	2SC503	2SC138		2SC1018					
2N2194B	2SC503	2 S C 38		2SC1018		_			
2N2196	2SC1237	2SC799		2SC778					
2N2197	2SC1237	2SC799		2SC778					
2N2218	2S C503	2 S C 580		2SC775		2SC827			
2N2218A	2SC503			2SC775		2SC827			
2N2219	2SC503	2SC580		2SC775		2SC827			
2N2219A	2SC503	2SC853		2SC775		2SC827			
2N2221		2SC580							
2N2221 A		2SC853							-
2N2222		2SC580							
2 N2 22 2 A		2SC853							
2N2224	2SC503	2S C580							
2N2239		2SC959 -		2SC1018		_			
2N2270	2SC502	2SC698			2SC697	2SC541	2SC756-2	2SC614	
2N2297	2SC503						22.00	200014	
2N2330	2SC503		/			1			
2N2339	2SC520	_		_	2 S C 647				- 7
2N2374									
2N2375									
2N2376							_		-
2N2410				-					-
2N2430	2SC503	2SC580		2SC775					
2N2443	2SC510	2SC49	2SC708H	2SC309	2SC696A	2SC1069	2SCI 124		
2N2447	2SB306				2SB289	2SB 304	2001124		
2N2448	2SB306				2SB289	2SB304			
2N2449	2SB40				2SB288	2SB304			

		IAL	=	-	AXIMU	m R	ATING:	3			_			ECTRICA	LUHAR	AL LER	21162	(-			1	OUTLINE	
TYPE	USE	MATERI	POLALITY	Pc 25 C	Tj (*C)	Voa (V)	VCEO (V)	lc (mA)	Ια (μΑ)	Vos(V)	min	hre	lc(mA)	hfe	hie (Ω)	hre (×10)	hoe (µo)	fr *fae **fab	NF (dB)	Cob (pF)	Coxrbb (ps)	TO.	NOT
2N2483	A	S	N	(mW)	200	60	60	(1111-17	(µA)	V CBR V /	40	120		80	- (30)	(,,,,,	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(MHz)	(40)	()47	(10)		
N2484	A	S	N	360	200	60	60			-	100	500		150	····			15			-		
2N2537	SH	S	N	800	200	60	-		- 25	-				150				250					
2N2537	SH	S	-	800	200	60	30			-	50												
		-	N							-	100	300		15				250					
2N2594	A	S	N	5W	200	80	90			-	50	150	100	15				40	-				
2N2632	AP	S	N	40W	175	90	60			-	40	120	IA	40				20					
2N2657	SP	S	N	1.25W	200	80	60			-	40	120	IA					20			-		
2N2699	SH	G	P	150	100	15	8	100	0.5		40	200	10	20		-		300	109 42			00	
2N2711	A	S	N	200	125	18	18	100	0.5	18	30	90	2	-30					10KHZ 2.8			98	GE
2N2712	Α	S	N	200	125	18	18	001	0.5	18	75	225		80		-			10KHZ 2.8			98	GE
2N2713	Α	S	N	200	125	18	18	200	0.1	18	30	90		30								98	GE
2N2714	Α	S	N	200	125	18	18	200	0.1	18	75	225		80								98	GE
2N2723	AL	S	N	500	200	80	60				2K	IOK		1500				100			-	1	
2N2724	AL	S	N	500	200	80	60			1.	7K	50K		5000				100					
2N2725	AL	S	N	500	200	45	45				2K	10K		1500				100					
N2726	AHP	S	N	IW	200	200	200				30	90	200	30				15					
2N2727	AHP	S	N	IW	200	200	200				75	150	200	75				15					
N2787	SH	S	N	800	175	75	35				20	50	150	15				250					
2N2788	SH	S	N	800	175	75	35				40	120	150	30				250					
2N2789	SH	S	N	800	175	75	35				100	300	150	80				250					
2N2800	SH	S	P	800	200	50	35				30	90	150					120					
N2801	SH	S	P	800	200	50	35				75	225	150					120					
N2828	SP	S	N	40W	200	80	60				20	60	500					- 1					
N2829	SP	S	N	40W	200	80	60				20	60	IA					Т		-			
2N2846	S	S	N	800	200	60	30				30	120	150					250					
N2848	S	S	N	800	200	60	20				40	140	150					250					
N2853-1	SH	S	N	850	200	60	40				40	_	IA					30				- ×	
N2854-1	SH	S	N	850	200	60	40				100	300	IA		_		1	30					- 1
2N2855-1	SH	s	N	850	200	60	40				40	120	IA					30				-	
2N2856-1	SH	S	N	850	200	60	40				20	60	IA					30					
2N2863	АН	S	N	800	200	60	25				30	220	200					150					
2N2864	АН	S	N	800	200	60	25		-	1	20	200	200	-				150					
2N2868	SH	S	N	800	200	60	40				40	120	150			\vdash					 		
2N2875	AHP	s	P	20W	200	60	50			-	15	60	50	- 1				25					
2N2876	AH	S	N	17.5W	200	80	60				5		2.5A	-+				150					_
2N2877	AHP	S	N	53W	200	80	60				20	60	IA	20				30		-	+		
N2878	AHP	S	N	53W	200	80	60	<u> </u>			40	120	IA	40				50			-		
2N2883	AHP	S	N	800	200	40	20			-	20	120	100	40				400					
2N2884	AHP	S	N	800	200	40	20			_	20		100				-	400			-		
N2904	SH	S	P	3W	200	60	40				40		120			-		200			-		
2N2905	SH	s	P	3W	200	60	40				100	300	150					200			_		
2N2906	SH	<u>S</u>	P	1.8W	200	60	40				40	120	150					200			-	-	
2N2906 2N2907	SH	S	P	1.8W	200	60	40		-	-	100	300						200			-		
								100	0 1	25		300	150									00	- 05
2N2923 2N2924	Α	S	N	200	125	25	25	100	0.1	25	115		2	90				160			_	98	GE
	Α-	S	_	200	125	25	25	100	0.1	25	155		2	150				160			_	98	GE
N2925	Α	S	N	200	125	25	25	100	0.1	25	215		2	235				160			ļ	98	GE
N2926	A	S	N	200	125	18	18	200	0.5	18				35				120		7		98	GE
N2927	S	S	Р	800	200	25	25				30	130		25				100			_		
N2939	AHP	S	N	800 -	300	75	60				_	_	150					150					
N2941	AHP	S	N	800	200	150	100					240	150					150					
N2947	AP	S	N	25W	175	60	60				2.5	55	400					100					
2N2948	AP	S	N	25W	175	40	40				2.5	100	400	I				100					
N2949	AP	S	N	6W	175	60	60				5	100	40					100					
N2950	AP	S	Ν	6W	175	60	60				5	100	40					100					
N2951	AP	S	N	3W	175	60	60				20	150	10					200					

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N2483									_
2N2484									
2N2537									
2N2538									
2N2594				2SC1018					
2N2632									
2N2657		·		9					
2N2699									
2N2711	2SC1000		2SC458			2SCI372			
2N2712	2SC1000		2SC458			2SC1372			
2N2713	2SC396	2SC1216	2SC468			2SC724			
2N2714	2SC396	2SC1216	2SC468			2SC724			
2N2723								_	
2N2724									
2N2725				-					
2N2726									
2N2727				+					
2N2787				+					
2N2788	= =			-					
2N2789				+					
2N2800				-					
2N2801				-					
2N2828									-
2N2829			_	-			-		
2N2846									
2N2848 2N2853-I				2SC1014					
2N2854-1				2SC1014					-
2N2855-1				2SC1014		-			
2N2856-1	_			2SC1014					
2N2863				2001014					
2N2864									
2N2868				2SC1018					
2N2875									
2N2876	2SC551	2SC598		2SC737			_		
2N2877	200001								_
2N2878	-								
2N2883	2SC1165	2SC890		2SC908					
2N2884	2SC1165	2SC890		2SC908					
2N2904			_	` `					
2N2905									11
2N2906									
2N2907	_								
2N2923	2SC1000			2SCI312					-
2N2924	2SC1000			2SCI312					
2N2925	2SCI000			2SCI3I2					
2N2926		2SC1216				2SC1231		2SC933FP	
2N2927			- 1						
2N2939									
2N2941									7.7
2N2947	2SC551			2SC737					
2N2948	2SC551			2SC737					
2N2949						_			
2N2950									
2N2951				2SC1018					

		A.	≥		XIMUI	M R	ATINGS		-		-		EL	ECTRICAL	L CHAR	ACTER	121102	fτ			1	OUTLINE	
TYPE	USE	MATERI	POLAUTY	Pc 25*C	Tj (*o)	Vos	VCEO	(-4)	l cac	_		hre		hfe	hie (Ω)	hre (×10)	hoe (μζ)	*fae	NF (dB)	Cob (pF)	Coxrbb (ps)	TO.	NOTE
2N2952	AP	≆ S	N	(m\)	(°C)	(v)	(v)	(mA)	(μ A)	Voe(V)	min. 20	max:	Ic(mA)		(30)	(> 10)	(µĢ)	(MHz) 200	(00)	(рі)	(μο)		
	1	S		1.8W		40					30		30					350					
2N3013	SH	_	N	360	200		15						_					350					
2N3014	SH	S	N	360	200	40	20				30		30			-		250			-		
2N3015	SH	S	N	800	200	60	30				30		150			<u> </u>					-		
2N3016	AHP	S		3.33W	150	100	50				60	150	IA					200			-		
2N3017	AHP	S	_	3.33W	150	100	50			_	60	150	IA			-		200					
2N3021	SHP	S	Р	25W	175	30	30				20	60	IA			-	-	60					
2N3022	SHP	S	Р	25W	175	45	45				20	60	IA 、					60					
2N3023	SHP	S	Р	25W	175	60	60	_			20	60	IA			-		60					
2N3024	SHP	S	Р	25W	175	30	30				50	180	IA			 	-	60					
2N3025	SHP	Ş	Р	25W	175	45	45				50	180	IA					60					
2N3026	SHP	S	Р	25W	175	60	60				50	180	IA					60			<u> </u>		
2N3053	SH	S	N	5W	200	60	40				50	250	150					100					
2N3054	AP	S	N	25W	200	90	60	4A			25	100	500	25		<u> </u>		30				66	GE
2N3072	S	S	Ρ	800	200	60	60				30	130	50	25		<u> </u>		130			_		
2N3107	S	S	Ν	800	200	100	60				100	300	150	60				70					
2N3108	S	S	Ν	800	200	100	60				40	120	150					60					
2N3109	S	S	Ν	800	200	80	40				100	300	150	60				70					
2N3110	S	S	Ν	800	200	80	40				40	120	150					60					
2N3114	АН	S	N	800	200	150	150				30	120	30	25				40	,				
2N3118	АН	S	N	١W	200	85	60				50	275	25					250					_
2N3120	S	s	Р	800	200	45	45				30	130	50	25				130					
2N3122	A	S	Ν	800	200	50	30				25	100	300				T	60					
2N3133	SH	S	P	600	200	50	35				40	120	150					200				_	
2N3134	SH	S	P	600	200	50	35				100	300	150					200					
2N3135	SH	S	Р	400	200	50	35				40	120	150					200				,	
2N3136	SH	S	P	400	200	50	35				100	300	150					200					
2N3138	AHP	S	N	20W	200	65	65				10		IA					100					
2N3140	AHP	S	N	20W	200	65	65	-		T	10		IA					100					
2N3142	AHP	S	N	25W	200	65	65				10		IA					100					
2N3144	AHP	S	N	25W	200	65	65	_			10	Т	IA					100					
2N3199	AHP	S	Р	40W	200	40	40	-			20	60	1A	10				-					
2N3200	AHP	S	Р	40W	200	60	60				20	60	IA	10		1		T					
2N3205	AHP	S	Р	40W	200	40	40				20	60	500	10				Т					
2N3206	AHP	-	P	40W	200	60	60	-			20		500	10		_		Т				1	
2N3210	SH	S	N	360	200	40	15				30	120	_					300					
2N3226	AP	S	N	75W	200	35	35				20	-	2A	20				30					
2N3229	AHP	-	N	17.5W	200	105	60				5		2.5A					150			1		
2N3244	SH	s	P	IW	200	40	40				50	150	500		_			175					
2N3245	SH	s	P	IW	200	50	50				30	90	_			_		150					
2N3252	SH	_	N	1W	200	60	30				30	90	_	_				200					
2N3253	SH	s	N	IW	200	75	40				25	75	375					175	<u> </u>		T	— —	
2N3295	AHP	-	N	800	175	60	60				20		10			\vdash		200			+	1	
2N3296	AHP	-	N	700	175	60	60				5		40	<u> </u>	\vdash		<u> </u>	100	 	 	+	+	
2N3297	AHP	S	N	25W	175	60	60				2.5	35						100			+	1	
2N3298	AHP	_	N	IW	175	25	15				80	240		<u> </u>		+		200			+	 	
2N3299	SH	-	N	800	200	60	30	-			40	120		-				250			+	+	-
2N3300	SH	_	N	800	200	60	30				100	-	_			+	-	250			+	+	
2N3301	SH	_	N	360	200	60	30		_	-	40	120		 		+	-	250	-	_	+-	+	-
			_				30	-			100	300				-	-	250		-	+	+-	\vdash
2N3302	SH	S	N	360	200	60		-						 	-	+		300		-	+	+	
2N3309	AHP		N	3.5W	175	50	50	-			40	100			-	+-	-	250	-	-	+	_	
2N3326	SH	S	N	800	175	60	45					_	_	_	-	+	-	400	-	-	+	+	
2N3375	AHP	S	N	11.6W	200	65	40	100	<u> </u>	10	10	100		400		+	-	1400			+	98	GE
2N3390	Α	S	N	200	125	25	25	100	0.1	18	400	800	2	400		-	-	100	1.0	2	+	+	_
2N3391	A	S	Ν	200	125	25	25	100	0.1	25	250	500	2	250				120	1.9			98	GE

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N2952					-				
2N3013				_		_	-		
2N3014							_		
2N3015									
2N3016									
2N3017									
2N3021									
2N3022									
2N3023									
2N3024									
2N3025 2N3026							-		
2N3053		_	+				-		
2N3054	2SD118	2SD283							_
2N3072	230116	230263	-	2SC1018			-		
2N3107		 		2301018					,
2N3108									
2N3109				2SC1018	_		_		
2N3110				2501018	_		_		_
2N3114		- 50							
2N3118		`							
2N3120								-	
2N3122	2SC504	2SC959	2SC479		2SC696	2SC200			
2N3133									
2N3134									
2N3135									,
2N3136	_			-	,				
2N3138	_								
2N3140			1						
2N3142			-						
2N3144 2N3199			-						
2N3200									
2N3205									
2N3206			_		-				
2N3210	-							_	
2N3226									
2N3229		_	1						
2N3244	_		-		-				
2N3245							1		
2N3252		- 1							_
2N3253									
2N3295	2SC998			2SC741		2SC543			
2N3296									
2N3297	2SC551			2SC737		2SC543			
2N3298	2SC501	2SC67		2SC306		2SC88			
2N3299	2SC501	2SC67		2SC306		2S088			
2N3300	2SC501	2SC67		2SC306		2SC88			
2N3301	2SC501	2SC67		2SC300		2SC88			
2N3302	2SC501	2SC67		2SC300					
2N3309				2SCI011		2SC1465			
2N3326	200540	200500		200001		****			
2N3375 2N3390	2SC549 2SC732	2SC598	2001244	2SO691		2SC543	0001000	2SC614	
T142920	2SC732 2SC732	2SC923	2SC1344 2SC458LG			2SC1372	2SC403C	2SC933FP	

		¥	12		MAXIM	UM	RATING	is					- 1	LECTRIC	AL CHA	RACTER	ISTICS						
TYPE	USE	MATER	POLALITY	25°	/*0	Vos	VCEO	lc (mA)	lα (μA)	Voa(V	min.	hr	1	hfe	hie (ℚ)	hre (×10)	hoe (カカ)	fr *fae **fab (MHz)	NF (dB)	Cob (pF)	Coxrbb	OUTLINE TO.	NOTE
2N3391A	A	S		(10)	12.			100	(μA)	-	+	_	lc(mA		(22)	(^10,	(μο)	_		(pr)	(ps)		
2N3392	A	S	_	-	12			100	0.1	25 25	150			250		<u> </u>		120	1.9			98	GE
2N3393	A	S	-	-	12	_	_	100	0.1	_	90	_	_	150	-		ļ	120			ļ :	98	GE
2N3394	A	s	+	-	12		_	100	0.1	25 25	55		_	90 55	-	+		120				98	GE
2N3395	A	S	-	-	12	_		100	0.1	25	150	_		150	 -	-		120		10	-	98	GE
2N3396	A	s	IN	-	125	_	_	100	0.1	25	90	_	_	90				 		10	-	98	GE
2N3397	A	s	_		125		_	100	0.1	25	55	+	_	55	-					10		98	GE
2N3398	A	S	N	-	125	_	+	100	0.1	25	55	_	_	55	-	-				10	-	98	GE
2N3402	A	S	N	_	150	_		500	0.1	25	75		_	75	5100	2.7	1.4	-		10	_	98	GE
2N3403	A	S	N	-	150			500	0.1	25	180		_	180	9000	-	14	-			ļ	98	GE
2N3404	A	s	N	000	150	_	_	500	0.1	50	75	+		75		4.5	21				-	98	GE
2N3405	A	s	N		150		_	500	0.1	50	180			100	4200	2	10					98	GE
2N3414	A	S	N		160	_	_	500	0.1	25	75	-	2	75	8300 5100	4	20					98	GE
2N3415	A	s	N	-	160		25	500	0.1	25	180		2		_	2.7	14				ļ.,,	98	GE
2N3416	A	S	N	_	160	_		500	0.1	50	75		2	180 75.	9000 4200	4.5	21					98	GE
2N3417	A	s	N		160		_	500	0.1	50	180		2	100	8300	2.7	10				-	98	GE
2N3418	SP	S	N	_	175		60	300	0.1	30	20		IA	100	6300	4	20	40			<u> </u>	98	GE
2N3420	SP	S	N	_	175	_	60				40	-	IA.	-				40			-		
2N3440	AH	S	N		200	_	250				40	160	20	25				40					
2N3441	AP	s	N		200	_	140	3A			25	100	500	23				15					
2N3442	I AP	S	N				140	5A	_		20	70	3A	-				0.8				66	GE
2N3444	SH	S	N		200		50	JA			20	60	500					150				3	GE
2N3462	A	S	N		200	and the same	35				100		10	150				150					
2N3463	A	S	N		200	1	45		-	-	120	360	10					10					
2N3464	AHP	S	N	5W	200		40	-			35	100	200	150				45 50					
2N3467	SH	S	Р	IW	200	40	40	-			40	120	500	30		-		175					
2N3468	SH	S	P	iw	200	50	50				25	75	500					175					<u> </u>
2N3469	AHP	s	N	1.25		35	25				100		500	100		-					•		
2N3478	AH	S	N	200	200	30	15	\dashv			25	150	2	25				20 750	-+				
2N3485	SH	S	P	2W	200	60	40				40	120	150	23		_			,				
2N3486	SH	s	P	2W	200	60	40				100	300	150			-		200			-		
2N3500	AH	S	N	IW	200	150	150				40	120	150	50			-						
2N3506	SH	S	N	IW	200	60	40				40	200	1.5A	50		_	_	150	_				
2N3507	SH	s	N	iw	200	80	50	\rightarrow			30	-	1.5A					60			_		
2N3508	SH	s	N	400	200	40	20	\rightarrow		\dashv	40		1.5A			-		60	_				
2N3510	SH	s	N	360	200	40	10				25	150	150	20	_		-	500	_		_		
2N3511	SH	S	N	360	200	40	15	\rightarrow			30		150	20		\rightarrow		350			_		
2N3512	SH	s	N	800	200	60	35	\dashv			10	120	500	20				450	-				
2N3526	AH	s	N	800	200	130	120			\dashv	30	120	30	25		\dashv		250 40	\rightarrow		\rightarrow		
2N3544	AH	_	N	300	175	25	25	-+		\dashv	25	120	10	25		-		600			\rightarrow		
2N3547	A	S	P	360	200	60	60	-		-	_	500	IA	120	_	-		45	-				
2N3548	A	S	P	400	200	60	45			_	_	_	10	150		+		60	-	\rightarrow	\rightarrow	-	
		S	N	7W	200	65	40	-			$\overline{}$		250	130		+	\dashv	400	-	-	-	-+	
2N3554			N	800	200	60	30	\dashv	\dashv			_	750 750			-				\dashv	-		
2N3563	\rightarrow		N	260	125	30	12	\rightarrow	-+	\rightarrow	_	\rightarrow	8	20	-+	\rightarrow		150 600	-+				
2N3564	$\overline{}$	-	N	260	125	30	15	\dashv	_	-	$\overline{}$	\rightarrow	12	20	-	+			•	-	-	\rightarrow	
2N3565		s	N	260	125	30	25	\dashv	_		\rightarrow	_	1	120	+	-+		400	-	\rightarrow	\rightarrow	_	
N3566	_	\rightarrow	N	300	125	40	30	\dashv		_	\rightarrow		10	120		+	\rightarrow	40	\rightarrow		_	\rightarrow	
2N3567		\rightarrow	N	300	125	80	40	-+	-+	\dashv	_	\rightarrow	150			+		40		-	\dashv		
2N3568	_	\rightarrow	N	300	125	80	60	\rightarrow	\rightarrow	\dashv		_			-	+	-	60	-	-	\rightarrow		
2N3569	_		N	300	125	80	40	\dashv	-	-+	_	_	150	_	-	-		60	_		\dashv		
2N3579			P	400	200	60	60		-+	-	$\overline{}$	_	150	20	-	_		60	\rightarrow	_	\rightarrow	\rightarrow	
		-	P	400	200	60	60	-+	-+				1	30	\rightarrow	-	\dashv	80		_	\rightarrow		
		-	F	400	200	50	40		-	\dashv				60	-	_		80	-		_		
_		_	P	400	200	\rightarrow	_	\dashv					100	50		_		30			\perp	\perp	
.110002	40	J	٢	400	1200	50	40				100	300	100	100				30	- 1	*	- 1		

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N3391A	2SC732	2SC 945	2SC458LG	2SC300			2SC631A		
2N3392	2SC400	2SC1216	2SCI085	2SC1312	2SC478	2SC724		2SC933FP	
2N3393	2SC400	2SC1216	2SCI085	2SC1312	2SC478	2SC724		2SC933FP	
2N3394	2SC400	2SC1216	2SC1085	2SC1312	2SC478	2SC724		2SC933FP	
2N3395	2SC1000	2SC1216		2SC712F		2SC724	2SC631		
2N3396	2SC1000	2SC1216		2SC712F		2SC724	2SC631		
2N3397	2SC1000	2SC 2 6		2SC712F) -	2SC724	2SC631		
2N3398	2SC1000	2SC 2 6		2SC712F		2SC724	2SC 631		
2N3402	_				2SC1346				
2N3403		-			2SC1346				
2N3404				· ·	2SC1347	_		-	
2N3405					2SCI347				
2N3414					2SC1346				-
2N3415					2SCI346				-
2N3416					2SC1347				
2N3417					2SCI347				
2N3418					2007047				
2N3420		_				_			
2N3440									
2N3441		2SD284					30050		
2N3442		2SD286					2SD56		
2N3444		230200	_						
2N3462	2SC734	2SC1216	2SC317	2SC620	2SC456	200705	000010		
2N3463	2SC734	2SC1216	2SC317	2SC620		2SC725	2SC318		
2N3464	230734	2501210	250317	250620	2SC456	2SC725	2SCI129		
2N3464 2N3467									
2N3467 2N3468				_					
2N3469 2N3478									
2N3478 2N3485							1		
2N3486									
2N3500									-
2N3506	·								
2N3507									
2N3508									
2N3510									
2N3511									
2N3512									
2N3526									
2N3544									
2N3547			_						
2N3548	200542								
2N3553	2SC549	2SC598				2SC 542		2SC614	
2N3554									
2N3563	2SC387A	2SC922		2SC763	2SC1047	2SC721	2SC1129		
2N3564		2SC922		2SC763	2SC1047	2SC721	2SCI129		
2N3565		2SC838	2SC461	2SC710				2SC933FP	
2N3566				2SC620	2SC456	2SC725			3.2
2N3567			2SC284	2SC714					
2N3568			2SC284	2SC1211					
2N3569			2SC284	2SC714					
2N3579									
2N3580									
2N3581									
2N3582				(4.7)					

		7	>	M	AXIMU	M R	ATINGS						EL	ECTRICA	L CHAR	ACTERI	STICS						
TYPE	USE	MATERIAL	POLALITY	Pc 25°C	Tj	Vos	VCEO	10	J ca	_		hre		hfe	hie	hre	hoe	ft *fae **fab	NF (1D)	Cob	Coxrbb	OUTLINE TO:	NOT
				(mW)	(°C)	(V)	(V)	(mA)	(µA)	Vos(V)	min.	max.	ic(mA)		(Ω)	(×10)	(μ ₀)	(MHz)	(dB)	(pF)	(ps)		
2N3583	AHP	_	N	35W	200	250	175				40	200	500	25		_		10		L			
2N3589	AHP	S	N	2W	175	200	200				30	90	200	30				15					
2N3590	AHP	S	N	2W	175	200	200			<u></u>	75	150	200	75		_		15					
2N3591	AHP	_	N	IW	175	200	200				30	90	200	30				15					
2N3592	AHP	S	N	łW	175	200	200				75	150	200	75				15					_
2N3593	AHP AHP	S		IW	175	200	200				30	90	200	30				15					
2N3594 2N3600		S	ZZ	1W 200	175 200	200 30	200				75 20	150	200	75 40				15 850					
2N3605	AH	S	N	200	150	18	15				30	150	10	40	_	-		300			-		
2N3606	S	S	N	200	150	18	14				30		10	` `		-		300					
2N3607	S	S	N	200	150	18	14				30		10			-		300					
2N3619	AHP	S	N	7.5W	175	75	40				40		ÍΑ					200					
2N3620	AHP	S	N	7.5W	175	75	40				40		IA					200					
2N3621	AHP	S	N	30W	175	75	40				40		IA			-		200					
2N3622	AHP	S	N	30W	175	75	40				40		IA		-			200					
2N3623	AHP		N	7.5W	175	75	40				40		IA					200			-		
2N3624	AHP	S	N	7.5W	175	75	40				40		IA					200			 		
2N3625	AHP		N	30W	175	75	40				40		IA		-			200					
2N3626	AHP	_	N	30W	175	75	40				40		IA					200					
2N3627	AHP	_	N	7.5W	175	100	50				40		1A					200					
2N3628	AHP	S	Ν	7.5W	175	100	50				40		1A					200					
2N3629	AHP	S	N	30W	175	100	50				40		IA					200		-			
2N3630	AHP	S	N	30W	175	100	50.				40		IA					200					
2N3632	AHP	S	Ν	23W	200	65	40				10	150	250					250					
2N3633	SH	S	N	300	200	15	6				50	150	10										
2N3638	SH	S	Р	300	125	25	25				30		50	25				100					r
2N3638A	SH	S	Р	300	125	25	25				100		50	100				150					
2N3641	AHP	S	Ν	350	125	60	30				40	120	150					250					
2N3642	AHP	S	Ν	350	125	60	45				40	120	150					250					
2N3643	AHP	S	Ν	350	125	60	30				100	300	150					250					
2N3644	SH	S	Р	300	125	45	45				115	300	50					200					
2N3659	АН	S	Ν	4W	200	220	170				20		10	20		ļ.,		50			L		
2N3660	AHP	S	Р	5W	200	40	30				25	100	500					25			ļ		
2N3661	AHP	S	Р	5W	200	60	50				25	100	500					25					
2N3662	АН	S	N	200	125	18	12	25	0.5	15	20		8					700	60/HZ	1.5		98	GE
2N3663	АН	S	N	200	125	30	12	25	0.5	15	20		8					700	60MHZ	3		98	GE
2N3675	SP	S	N	8.8W	200	90	55				12	60	IA					1					
2N3678	SH	S	N	800	200	75	55				40	120	150					250					
2N3681	AH	S	N	200	200	10	7				20	220	2	20				Ĭ					
2N3682	AH	S	N	360 200	200	40 30	15		ļ		40	120	10	45 30				600	<u> </u>		_	\vdash	
2N3683 2N3688	AH	S	N	200	200 125	40	40				30	150	8	30				400	<u> </u>				
2N3688 2N3689	AH	S	N	200	125	40	40				30		4	$\vdash\vdash$				400	ļ	-	_	\vdash	
2N3689 2N3690	AH	S	N	200	125	40	40		-		30		4	\vdash		-		400		_			
2N3691	An	S	N	200	125	35	20				40	160	10	40		\vdash		200				-	
2N3692	A	S	N	200	125	35	20			-	100	400	10	100		L		200		-	-	\vdash	
2N3693	AH	S	N	200	125	45	45				40	160	10	100				200		_			
2N3694	AH	S	N	200	125	45	45		-		100	400	10	\vdash		-		200			\vdash		
2N3702	A	S	P	300	150	40	25				60	300	50	\vdash		-		100			-		
2N3702	A	S	P	300	150	50	30				30	150	50					100				-	
2.10700	-	_	-	500	. 50	30	50				30	, 50	30	\vdash			_	1.00					
										_													
	\vdash	-	-																			\vdash	
	-	-									H							-					

							_		_
TYPE	TOSHIBA	NEC	нітасні	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N3583									-
2N3589								-	
2N3590									1
2N3591									
2N3592					7				
2N3593									
2N3594									
2N3600									
2N3605	ļ				_				
2N3606									
2N3607									
2N3619 2N3620	-			2SC691				2SC614	
2N3621	2SC1077	2SC1037		2SC691				2SC614	
2N3622	2SC1077	2SC1037 2SC1037		2SC690 2SC690	_				-
2N3623	2301077	2301037		2SC691				-00014	
2N3624			_	2SC691	_			2SC614	-
2N3625	2SC1077	2SC1037		2SC690				2SC614	-
2N3626	2SC1077	2SC1037		2SC690					-
2N3627	200,011		_	200000					
2N3628								-	
2N3629				_					
2N3630								-	
2N3632	2SC551			2SC737		2SC543			
2N3633									
2N3638									
2N3638A									
2N3641				2SC620	2 SC456				
2N3642				2SC620	2SC456		<u>_</u>		
2N3643				2SC620	2SC456				
2N3644 2N3659									
2N3660		201.00		201001					1
2N3661	_	2SA 635 2SA 635		2SA624 2SA624		_			
2N3662	2SC786	2SC922	2SC683	25A624			0001100		
2N3663	2SC785	2SC1187	2SC717				2SCI129		-
2N3675	230763	2301187	230717				2SCI129	-	
2N3678									
2N3681									
2N3682						_			
2N3683									
2N3688		2SC1187	2SC717				2SC1129		
2N3689		2SC1187	2SC717				2SC1129		
2N3690		2SC1187	2SC717			_	2SC1129		
2N3691	2S€732		2SC461	2SC710			2SC632	2SC933FP	
2N3692	2SC732		2SC461	2SC710	10.00		2SC632	2SC933FP	
2N3693	2SC732		2SC461	2SC710			2SC632	2SC933FP	
2N3694	2SC732		2SC461	2SC710			2SC632	2SC933FP	
2N3702									
2N3703									
						-			
			_						
	-								

			Τ.	М	AXIMU	M R	ATING	S					EL	ECTRICA	L CHAR	ACTERI	ISTICS				_		
TYPE	USE	MATERIAL	POLAUTY	Pc 25°C (mW)	Tj (°C)	V _{CB}	V _{CEO} (V)	I _C (mA)	Ic (ALA)	BO Vcs(V)	min.	mex.		hfe	hie (Ω)	hre h	hoe	f *fae **fab (MHz)	NF (dB)	Cob (pF)	Coxrbb (ps)	TO.	NOTE
2N3704	A	S	N	360	150	50	30	800			100	300	50					100				18	
2N3705	Α	S	N	360	150	50	30				50	150	50					100			1		-
2N3706	Α	S	N	360	150	40	20				30	600	50					100					
2N3707	Α	S	N	250	150	30	30	-			100	400	400	100									
2N3708	A	S	N	250	150	30	30	100			45	660	660	45									
2N3709	Α	S	N	250	150	30	30				45	165	1	45									
2N3710	A	S	N	250	150	30	30	_			90	330	I	90									
2N3711	Α	S	N	250	150	30	30			_	180	660	-	180					-				
2N3712 2N3719	AH	S	P	800 6W	200	150	150			-	30	150		25				40			_		
2N3719	SHP	S	P	6W	200	60	40 60			-	25	180	IA IA			-		60	-		<u> </u>		
2N3721	A	S	P	200	125	18	-	100	0.5	18	25 60	_		60		-		120	-				
2N3721	S	S	Р	800	200	80	60	100	0.5	10	40	150		60				300	-		-		
2N3724	SH	S	Р	800	200	50	30		-		60	150	100			-		300	-				
2N3724A	SH	S	P	IW	200	50	30		-	-	60	150	100			-	_	300			-		
2N3725A	SH	S	P	IW		80	50			-	60	150	100	3	-						-		
2N3734	SH	S	P	IW	200	50	30	IA	-		30	120	IA	-			-	300					
2N3735	SH	S	Р	IW	200	75	50	IA			20	80	IA.					250		-			
2N3738	AP	S	Р	20W	175	250	225	IA			40	200	100	35				15					
2N3739	AP	S	Р	20W	175	325	300	IA			40	200	100	35				15			-		
2N3740	AP	S	Р	25W	200	60	60	4A			30	100	250	25				4					
2N3740A	AP	S	Р	25W	200	60	60				30	100	250	25				4					
2N3742	АН	S	N	IW	200	300	300				20	200	30 。	20				30					
2N3744	AHP	S	N	30W	200	60	40				20	60	IA	20				30					
2N3745	AHP	S	N	30W	200	80	60				20		IA	20				30					
2N3747	AHP	S	Ν	30W	200	60	40				40	120	_	40				40					-
2N3748	AHP	S	N	30W	200	80	60				40	120	IA	40				40					
2N3762	SH	S	Р	IW	200	40	40		L	_	30	120	IA					180					
2N3763	SH	S	Р	IW	200	60	60				20	80	IA					150					
2N3766	AP	S	N N	20W 150W	175 200	80	60 40	30A	2 4		40		500	40				15					0.5
2N3771 2N3772		S	N	150W	200	100	60	20A	2mA 5mA	100	15	60	15A 10A	40	_					_		3	GE
2N3772 2N3773			N	150W	200	160	140	16A	2mA	140	15	60	8A	40							L	3	GE
2N3778	\vdash	S	P	360	200	60	60	100	ZIIIA	140	-		500	150				30				3	GE
2N3818		_	•	25W	175	60	60				5	_	400	3		-		50					
2N3825	\rightarrow		N	250	150	30	15				20	-	2					200					
2N3830	\rightarrow	s	N	IW	200	80	50				30		150		_			200					_
2N3831	SH	S	N	IW	200	70	40				35		150					200					
2N3843	АН	S	N	200	125	30	30	100	0. 5	18	20	40	2					60	2 MHZ 5. S	3	150	92	GE
2N3843A	АН	S	N	200	125	30	30	100	0. 5	18	20	40	2					60	2 MHZ 5.5	3	150	92	GE
2N3844	-	-		200	125	30	30	100	0.5	18	35	70	2					90	2 MHZ 5.5	3	150	92	GE
2N3844A	-	S		200	125	30	30	100	0.5	18	35	70						90	2 MHZ 5.5	3	150	92	GE
2N3845		_	$\overline{}$	200	125	30	40	100	0.5	18		120						120	2 MHZ 5. 5	3	150	92	GE
2N3845A	\rightarrow	-	\rightarrow	200	125	30	30	100	0.5	18	_	120	_					120	2 MHZ 5.5	3	150	92	GE
		_	\rightarrow	30W	200	60	40				\rightarrow	_	IA					20					
_	-	-	\rightarrow	30W	200	60	40	10-			30	$\overline{}$	IA			_		20					
2N3854			-	200	150	18	18	100	0.5	18	35	_	2					100		16	25	92	GE
2N3854A	\rightarrow	\rightarrow	\rightarrow	200	150	30	30	100	0.5	18	35	70	_					100		16	25	92	GE
2N3855			-	200	150	18	18	100	0.5	18	60		2			_	_	130		16	35	92	GE
2N3855A 2N3856	\rightarrow			200	150 150	30	30	100	0.5	18	\rightarrow	120		\rightarrow	-		-	130		16	35	92	GE
2N3856A	\rightarrow	\rightarrow	-	200	150	30	30	100	0.5	18		200 200	2			-		140		16	40	92 92	GE GE
2N3858	\rightarrow	\rightarrow	\rightarrow	200	125	30	30	100	0. 05	40	_	_	2			-		90		10	65	92	GE
	\rightarrow	\rightarrow	_	200	100	60	60	100	0.05	60	45	120	1		-			90	-		65	92	GE
2N3858A																							uL

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N3704									
2N3705									
2N3706									
2N3707	2SC732	2SC900	2SC458LG	2SC871	2SC644		2SC631A		
2N3708	2SC1000	2SC900	2SC458LG		2SC644		2SC631A		
2N3709	2SC1000	2SC900	2SC458LG		2SC644		2SC631A		
2N3710	2SC1000	2SC900	2SC458LG		2SC644		2SC631A		
2N3711	2SC1000	2SC900	2SC458LG		2SC644		2SC631A		
2N3712									
2N3719									
2N3720									
2N3721	2SC1000		2SC458	2SC712		2SC724			
2N3722									
2N3724									
2N3724A									
2N3725A									
2N3734	2SC998	2SC319		2SC730		2SC1479			
2N3735									
2N3738									
2N3739								,	
2N3740									
2N3740A									
2N3742	-								
2N3744									
2N3745									
2N3747									
2N3748	-	-							
2N3762									
2N3763									
2N3766									
2N3771	2SD114					2SD250			
2N3772	2SD113	2SD132	-			2SD250			
2N3773			2SD341				2SD340		
2N3798				_					
2N3818									
2N3825	2SC979	2SC67	2SC907A	2SC301			2SC1128		
2N3830	2003/3	2000,	20000771	200001			20071120		_
2N3831							<u> </u>		
2N3843	2SC733		2SC641	2SC712			2SC631A	2SC933FP	
2N3843A	2SC733		2SC641	250712			2SC631A	2SC933FP	
2N3844	2SC733		2SC641	2SC712			2SC631A	2SC933FP	
2N3844A	2SC733		2SC641	2SC712			2SC631A	2SC933FP	
2N3845	2SC733		2SC641	2SC712			2SC631A	2SC933FP	
2N3845A	2SC733		2SC641	250712			2SC631A	2SC933FP	-
2N3852	230733		200041	230712			200031A	200333i F	
2N3853				-					
2N3854	2SC733		2SC641	2SC712			2SC631A	2SC933FP	
2N3854A	2SC733 2SC733		2SC641	250712			2SC631A	2SC933FP 2SC933FP	
2N3854A 2N3855	2SC733		2SC641	2SC712	 		2SC631A	2SC933FP	
	2SC733 2SC733		2SC641	2SC712 2SC712	-		2SC631A	2SC933FP 2SC933FP	
2N3855A				2SC712 2SC712			2SC631A	2SC933FP 2SC933FP	
2N3856	2SC733		2SC641		-	-	2SC631A 2SC631A	2SC933FP 2SC933FP	
2N3856A	2SC733		2SC641	2SC712					
2N3858	2SC733	200127	2SC641	2SC712	0001000		2SC631A	2SC933FP	
2N3858A	2SC506	2SC1278		*****	2SC1033		2002211	2SC715	
2N3859			2SC461	2SC713			2SC631A	2SC933FP	

		-	_	M	AXIMU	IM F	RATING	s		-			Ε	LECTRI CA	AL CHAP	RACTER	ISTICS		-, -			T 1	
TYPE	USE	MATERIAL	POLALITY	Pc 25°C (mW)	Tj (°C)	Vcs (V)	VCE0 (V)	fc (mA)	los (µA)	V ₀₈ (V)	min.	hre		hfe	hie (Q)	hre (×10)	hoe	f r *fae **fab (MH)	NF (dB)	Cob (pF)	Coxrbb'	TO.	NOTE
2N3859A	АН	S	N	200	100	60	60	100	0.05	60	75	mux.	I (IIII)					90	-	-	65	92	GE
2N3860	AH	S	N	200	125	30	30	100	0.05	40	150	300	2					90			65	92	GE
2N3866	AHP	S	N	5W	200	55	30	100	0.00	40	10	200	+					250		 	03	32	uc.
2N3867	SH	S	P	IW	200	40	40			-	40	_	1. 5A	-				60					
2N3868	SH	S	Р	IW	200	60	60	-			30		1.5A					60					
2N3869	AHP	S	N	2.5W	175	40	20				20	150	_	_	_			- 00					
2N3877	A	S	N	200	150	70	70	50	0, 1	70	20	250	_	-				160				98	GE
2N3877A	A	S	N	200	150	85	85	50	0. 1	70	20	250	_					160				98	GE
2N3878	AHP	S	N	35W	200	120	50	-	-		40	200		40		T		40			-	-30	
2N3880	АН	S	N	200	200	30	15				30	200		50				1200					
2N3900	A	S	N	200	125	18	18	100	0. 1	18	250	500		170		<u> </u>		160	1.9		-	98	GE
2N3900A	Α	S	N	200	125	18	18	100	0.1	18	250	500	_	170				160	1.9	_	 	98	GE
2N3901	A	S	N	200	125	18	18	100	0.01	15	350	700		350				200				98	GE
2N3903	SH	S	N	3 0	135	60	40				50	150	10	50				250					
2N3904	SH	S	N	310	135	60	40				001	300	10	100		1		300		_	-	-	
2N3905	SH	S	P	310	135	40	40				50	150	10	50				200			 	 	
2N3906	SH	S	P	310	135	40	40				100	300	10	100				250					
2N3910	SC	S	P	500	200	60	50				40	160	1					4					
2N3911	SC	S	Р	500	200	60	40				60	240	1					8					
2N3912	SC	S	Р	500	200,	60	30				90		1					10				 	
2N3913	SC	S	Р	400	200	60	50				40	160	1					4					
2N3914	SC	S	P	400	200	60	40				-	240	1					8					
2N3915	sc	S	P	400	200	60	30	-			90		1					10					
2N3916	AP	S	N	5W	150	150	150				40	200	150	30				50					
2N3917	AP	S	N	20W	150	80	40				30	120	IA	15				50					
2N3918	AP	S	N	20W	150	80	40				100	300	IΑ	30	-			50			_		
2N3919	SP	S	N	15W	150	120	60				40		2A					80					
2N3923	AH	S	N	8W	200	150	150				30	120	25	20				40					
2N3924	AHP	S	N	7W	200	36	18											250				-	
2N3925	AHP	5	N	10W	200	36	18				-						_	250					
2N3926	AHP	S	Ν	11.6W	200	36	18											250					
2N3927	AHP	S	Ν	23. 2W	200	36	18											200					
2N3932	АН	S	Ν	200	200	30	20				40	150	2	50				750					
2N3933	АН	S	2	200	200	40	30				60	200	2	60				750					
2N3945	S	S	Ν	5W	200	70	50				40	250	150					60					
2N3946	SH	S	Z	360	200	60	40				50	150	10	50				250					
2N3947	SH	S	Ν	360	200	60	40				100	300	10	100				300					-
	AHP	S	Ν	IW	200	36	20		-		15		50					700					
2N3953	АН	S	Ν	200	200	15	12				30	360	2	40				1300					
2N3959	SH		Ν	400	200	20	12			\Box	40	200	10	13				1300					
2N3960			N	400	200	20	12	[40	200	10	16				1600					
	AHP	-	Ν	10W	200	65	40											400					
2N3962	Α		Р	360	200	60	60					_	10	100				40					
2N3964	Α		Ρ	360	200	45	45				_	_	10	250				50					
2N3965	Α	S	Ρ	360	200	60	60				_	-	10	250				50					
2N3973		-	Ν	360	150	60	30				\rightarrow	$\overline{}$	10					200					
2N3974			Ν	360	150	60	30		-		\rightarrow	-	10					200					
2N3975		_	N	360	150	60	30				_	_	10					200					
2N3976			Ν	360	150	60	30					\rightarrow	10					200					
2N3983		-	Ν	200	150	30	12				30	_	4					500					
2N3984		\rightarrow	Ν	200	150	30	12				20	\rightarrow	4				\Box	400					
		_	Ν	200	150	30	12				20	_	4					300					
	-	_	N		200	65	40			_[4	_	IA					400					
2N4013			N	360	200	60	40						100					300					
2N4014	SH	S	N	360	200	80	50					150	100			$_{\perp}$ T	⊤	300					-

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FJITSU	SONY	SANYO	NOTE
2N3859A	2SC506		2SC 473						-
2N3860	2SC732		2SC461	2SC 620			2SC631A	2SC933FP	
2N3866									
2N3867									
2N3868									
2N3869									
2N3877	2SC506		2SC 473						
2N3877A	2SC506								
2N3878									
2N3880									
2N3900	2SC732	2SC 815	2SC458LG	2SC 1312			2SC631A		
2N3900A	2SC732	2SC 815	2SC458LG	2SC 1312			2SC631A		
2N3901	2SC732	2SC 815	2SC458LG	2SC 1312			2SC631A	8	
2N3903			2SC1214	2SC1210		2SC1247A			
2N3904			2SC1214	2SC1210		2SC1247A			
2N3905				2SA696		2SA555			
2N3906				2SA696		2SA555			
2N3910		2SA636						-	
2N3911		2SA636							
2N3912		2SA636							
2N3913		2SA636		_					
2N3914		2SA636					· · · · · · · · · · · · · · · · · · ·		
2N3915		2SA636							
2N3916									
2N3917		1							
2N3918									
2N3919									
2N3923				_					
2N3924					2SC572				
2N3925					2SC572				
2N3926	2SC1120	2SC637		2SC703	2SC597	2SC843			
2N3927	2SC1120	2SC320				2SC842			
2N3932									
2N3933									
2N3945									
2N3946									
2N3947						_			
2N3948	2SC1165	2SC890	-	2SC908	2SC731	2SC1479			
2N3953									
2N3959									
2N3960									
2N3961		2SC598		2SC691		2SC542			
2N3962									
2N3964									
2N3965									
2N3973	2SC734		2SC 317	2SC620	2SC456	2SC725		2SC933	
2N3974	2SC734		2SC 317	2SC620	2SC456	2SC725		2SC933	
2N3975	2SC734		2SC 317	2SC620	2SC456.	2SC725		2SC933	
2N3976	2SC734		2SC 317	2SC620	2SC456	2SC725		2SC933	
2N3983									
2N3984									
2N3985									
2N4012	2SC549	2SC598		2SC691		2SC542		2SC614	
2N4013		100000			-	-50012		-500.4	
2N4014				_		-			

		A.	≥	-	AXIMU	M R	ATINGS	3					EL	ECTRICA	AL CHAR	RACTERI	STICS					OUT	
TYPE	USE	MATERIAL	POLALITY	Pc 25°C	Tj	Vca	VCEO	Ic	le	_		hre		hfe	hie	hre	hoe	fy *fae	NF	Cob	Coxrbb	OUTLINE TO.	NOT
2N4026	A	S	P	(mW)	200	(V) 60	(V) 60	(mA)	(µA)	Vœ(V)	min.	max. 120		_	(Q)	(×10)	(გუ)	**fab (MHz)	(dB)	(pF)	(ps)		
2N4028	A	S	Р	500	200	60	60			-	100	300			-		-	150				_	
2N4030	A	S	P	800	200	60	60				40	120	-					100					
2N4032	A	S	P	800	200	60	60		_		100	300	100			+-		150					
2N4034	SH	S	P	360	200	40	40			-	70	200	100	50				400			 	-	
2N4034	SH	S	P	360.	200	40	40			-	150	300	_	150				450		-			
2N4036	S	S	P	5W	200	90	65		_		40	140	150	150		\vdash		60					
2N4037	S	S	P	IW	200	60	40			_	50	250	150			\vdash		60					
2N4040	AHP	S	N	17. 5W	200	60	40		-	_	10	_	100					400			 		
2N4041	AHP	S	N	10W	200	60	40				10	80	75	_		\vdash		400					
2N4043	AM	S	N	300	200	45	45			-	80	800	10			\vdash		-					
2N4046	SH	S	N	800	200	50	30				80	150	_					150 250					
2N4046	SH	S	N	800	200	80	50					150	100					250					
2N4047 2N4054	AP	S	N	6. 25W	150	300	300				30	90						15			-		
2N4054 2N4055	AP	S	N	6. 25W	150	250	250	-			30	90						-					
2N4056	AP	S	-	6. 25W	150	200					-	_	50					15					
2N4056 2N4057	AP	S	N	6. 25W	150	150	200 150				30	90	50 50	ļ		+		15 15			 -		
2N4057	A	S	P	250	150	30	30				100	400	1	100				15		٠.			
2N4059	A	S	P	250	150	30	30				45	660	1	45									
2N4060	A	S	P	250	150	30				<u> </u>	_	_	1	_									
2N4060 2N4061	A	S	P	250	150	30	30 30				45	165	1	45									
2N4062	A	S	P	250	_						90	330	-	90		\vdash							
2N4064	AP	_	N	10W	150 200	300	30 250				180	660		180		\vdash		1.5					
2N4069	AP.	S	N	IW		150						160	30			\vdash		15					
2N4003	AHP	S	N	1,5W	175 200	40	150 20				30		25A					50					
2N4072	AHP	S	N	1.5W	205	40	20				10		25A			\vdash		550 550					-
2N4074	AH	S	N	400	175	40	40			-	10		25A	400		-		330					-
2N4081	AH	S	N	200	175	40	40				40	180	2	400		\vdash		600				\vdash	
2N4104	AH	S	N	300	175	60	60	-			40	100	2	1400				540					
2N4111	AP	S	N	30W	175	100	60				40	120	24	1400				70	,			-	
2N4121	AH	S	Р	200	125	40	40				170	720	10	50		-		400					
2N4122	AH	S	P	200	125	40	40				150		10	150				450					
2N4123	SH	S	N	310	125	40	30				50	150		50				250					
2N4124	SH	S	N	310	135	30	25	-				360		120				300					
2N4125	SH	S	P	310	135	30	30				50		2	50				200					
2N4126	SH	s	P	310	135	25	25			_	120	360	2	120				250					
2N4127	AP		N	25W	100	60	40				120	80	200	120			-	300			\vdash		
2N4128	AP	S	N	40W		60	40			-	10	80	200					200			-		
2N4134	AH	S	N	200	200	30	30	_			10	00	200	200				350			\vdash		
2N4134	AH	S	N	200	200	30	30				-		\vdash	200				425			\vdash	-	
2N4137	SP	S	N	360	200	40	40				40	120	ın	200		\vdash		500			\vdash		,
2N4137 2N4138	-	S	N	300	200	30	30			\vdash	50	120	I			\vdash		20					
2N4140	AH	S	N	300	125	60	30			\vdash	50	120	150					250			\vdash		
2N4141	AH	S	N	300	125	60	30			\vdash		300						250			\vdash		
2N4141 2N4142	AH	S	P	300	125	60	40					120	150			\vdash							
2N4142 2N4143	АН	S	P	300	125	60	40				<u> </u>	300	150					200				\vdash	
2N4207	SH	S	P	300	200	6	6				E0.	_				-					-		
2N4207 2N4208	\rightarrow	-	P	300	200	12	12	\dashv		\vdash		120	10			\vdash		650					
2N4208 2N4209	SH		P	300	200	15	15	\dashv			$\overline{}$	120	10					700			\vdash		
	\rightarrow	\rightarrow	_		200			-					10					850				-	-
2N4225	AP	\rightarrow	N	5W		100	40					150	IA.			\vdash		150			\vdash	-	
2N4226 2N4227	AP	\rightarrow	N	5W	125	200	60	\rightarrow			40	150	IA		-	\vdash		150				\rightarrow	
	S	\rightarrow	N P	300	125	60	30			\vdash	-	150	150					250					
2N4228 2N4231	AH	-	-	300	125	'60	40	\dashv		\vdash	25	150	150			\vdash		200					
ZN4231	AP	S	N	35W	200		40				25	100	1.5A	- 1		1 1	- 1	- 11	- 1		ı I		

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N4026									
2N4028									
2N4030									
2N4032									
2N4034									
2N4035									
2N4036									
2N4037	_	000001		200000		0001050			
2N4040 2N4041		2SC831 2SC831		2SC692		2SC1058	-		
2N4041		250831		2SC692		2SC1057	 		
2N4046									
2N4047		-		ļ			-	e,	
2N4054									
2N4055							+		
2N4056									
2N4057									
2N4058									
2N4059		,							
2N4060									
2N4061									
2N4062									
2N4064									
2N4069									
2N4072		2SC319		2SC730		X			
2N4073		2SC319		2SC730					
2N4074									
2N4081									
2N4104									
2N4111									
2N4121									
2N4122									
2N4123			2SC1213	2SC1210	2SC1318			2SC875	
2N4124			2SC1213	2SC1210	2SC1318			2SC875	
2N4125				2SA696					
2N4126				2SA696					
2N4127									
2N4128	2SC1077	2SC1037		2SC690		****			
2N4134		2SC922		-		2SC723	2\$01129		
2N4135		2SC922				2SC723	2SC1129		
2N4137		2001210	2000001					200000	
2N4138 2N4140	20070	2SC1216	2SC689H	200200		200000		2SC933	_
2N4140 2N4141	2SC979 2SC979		ļ	2SC302		2SC203			
2N4141 2N4142	230/313			2SC302		2SC203			
2N4142 2N4143									
2N4207									
2N4207 2N4208									
2N4209									
2N4225					-	_			
2N4226						-			
2N4227	2SC979			2SC302		2SC203			
2N4228	200010			200002		LUULUU			-
2N4231							_		
2N4232				0.0					

		3	>	MA	XIMUI	M R	ATINGS	3					EL	ECTRICA	L CHAP	RACTERI	ISTICS					OUTLINE	
TYPE	USE	MATERIAL	POLALIT	Pc 25*C	Tj	Vca	VCEO	le	les			þÆ		hfe	hie	hre	hoe	fr *fae	NF (dB)	Cob (pF)	Coxrbb	TO.	NOTE
	_		_	(mW)	(°C)	(V)	(V)	(mA)	(µA)	Vos(V)	min.	max.	Ic (mA)		(Ω)	(×10)	(pg)	**fab (MHz)	(06)	(pr)	(ps)		
2N4234	SP	S	P	1W	200	40	40				30	150	250			-		3			+	-	
2N4235	SP	S	P	IW	200	60	60				30	150	250					3					
2N4237	AP	S	P	5W	175	50	40				40	160	500	40		<u> </u>		10		<u> </u>	+		_
2N4238	AP	S	Р	5W	175	80	60			L	40	160	500	40		ـــــ		10			ļ		
2N4248	Α	S	Р	200	125	40	40							50		_		40					
2N4249	Α	S	P	200	125	60	60					ļ		100				40					
2N4250	Α	S	Р	200	125	40	40							250		_		40		ļ			
2N4251	S	S	N	250	200	15	10				100		10			ļ		1300			-		
2N4252	АН	S	N	200	175	30	18				50	L	2			_		600					
2N4253	АН	S	N	200	175	30	18				30		2					600					
2N4254	Α	S	N	200	175	30	18				50		2										
2N4255	Α	S	N	200	125	30	18				30		2 .										_
2N4256	A	S	N	200		30	30	100	0. InA	30	100	500	2					200				98	GE
2N4257	SH	S	P	200	125	6	6				30	120	10					500					
2N4258	SH	S	P	200	125	12	12				30	120	10					700					
2N4259	АН	S	N	175	175	40	30							70									
2N4260	SH	S	P	200	200	15	15				30	150	10	16	-			1500					
2N4261	SH	S	P	200	200	5	15			-	30	150	I5A	20				2000					
2N4262	AP	s	N	1.5W		25	10				75		300					600					
2N4263	AP	s	N	1.5W	,	25	10		-		75	-	300			+		800			-		
2N4264	S	S	N	310	135	30	15				4	160	10			+		300					
2N4265	SH	S	P	310	135	30	12				100	400	15			+		300			_		
	AP	S	N	5W	133	175	140				20	140	200					20			+		
2N4271		-	-	_	125	30	12	-			18	140	100					400			+		
2N4274	SH	S	N	280		_	_				$\overline{}$	-	100					400			+		
2N4275	SH	-	N	280	125	40	15				18	COO	I		-		_	400			+		
2N4284	A	S	P	250	165	25	25				-	600	ı			1							
2N4285	A	S	P	250	165	35	35		_			600	·	600				40			\vdash		
2N4286	A	S	N	250	150	30	25					-		600		 		40			\vdash		
2N4287	A	S	N	250	150	45	45							600				40			-		
2N4288	Α	S	Р	250	150	30	25							600		-		40					
2N4289	Α	S	P	250	150	60	40							600				40			_		
2N4290	Α	S	P	250	150	30	20						-	600				40			-		
2N4291	Α	S	Р	250	150	40	30	<u> </u>						600				40		ļ	 -		
2N4292	A	S	N	200	150	30	15				20		3					600		<u> </u>			
2N4293	A	S	N	200	150	30	15							60				600		<u> </u>	 		
2N4294	SH	S	N	200	150	30	12				30	120	10					400					
2N4295	SH	S	N	200	150	40	15				40	120	10					500					
2N4296	SP	S	N	20W		350	250				50	150	50					20					
2N4297	AP	S	N	20W		350	250				75	300	50					20					
2N4307	AP	S	N	1.5W		100	60				50	150	IA										
2N4308	AP	S	N	4W		100	60				50	150	IA				L						
2N4311	AP	S	N	1.5W		100	60				40	120	IA										
2N4312	AP	S	N	4W		100	60				40	120	IA									T	
2N4314	AP	s	Р	IW		90	65				50	250	_			T		200					
2N4347	AP	S	N	100W	200	140	120	5A	1		15	60	2A		-	1		Ι			1	3	GE
2N4348	AP	S	N	120W	200	140	120	IOA			15	60	5A									3	GE
2N4350	AP	s	N	7W		65	40				10	200	350					300					
2N4354	A	S	P	350	125	60	60		_	-	25	-55	100			1		500	-	-	+-	 	
2N4355	A	S		350	125	60	60				60		100			1	_	500			+		
	-	S	P	_	200	45			 		_	600	1	50		+		300		1	+	\vdash	
2N4359	A	-	+	360	_		45	 			30	000	1	_		+	<u> </u>	120			+	\vdash	
2N4383	AH	S	N	800	200	40	30				-			1000		+		-		 	+		
2N4384	AH	S	N	500	200	40	30		_		-		-	1000		-		120		_	+		
2N4385	AH	S	N	800	200	40	30	-	├		<u> </u>	-	-	1000	<u> </u>	1	ļ	120		-	+		
2N4386	AH	S	N	500	200	40	30							1000	_	_	L_	120			1		
2N4387		S	P	20W	200	40	40				25	100	500										

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISH	MATSUSHITA	FUJITSU	SONY .	SANYO	NOTE
2N4234		2SA635	2SA715	2SA624					-
2N4235		2SA635		2SA624					
2N4237									
2N4238									
2N4248				2SA696		2SA558			
2N4249				2SA697					
2N4250				2SA696		2SA558			
2N4251						-			1
2N4252	2SC 384	2SC922	1			2SC724			
2N4253	2SC384	2SC922				2SC724			1
2N4254	2SC384	2SC922				2SC724			
2N4255	2SC384	2SC922				2SC714			
2N4256	2SC400		2SC458	2SC713		2SC724			1
2N4257	200.00		100.00						+
2N4258				-					+
2N4259									10
2N4260							-		-
2N4261			-						+
2N4262	-								-
2N4263	_		-						-
2N4264									
2N4264 2N4265					-				
									+
2N4271				-					-
2N4274									
2N4275									
2N4284									+
2N4285									
2N4286	2SC752©	2SC1274 -	2SC689(H)	2SC619		2SC724		2SC933	-
2N4287	2SC734	2SC1274		2SC620		2SC725			-
2N4288									
2N4289									
2N4290									
2N4291									
2N4292	2SC 383	2SC922		2SC763			2SC1129		
2N4293	2SC383	2SC922		2SC763			2SC1129		
2N4294									
2N4295									
2N4296									
2N4297									
2N4307									
2N4308									
2N4311									
2N4312									
2N4314									
2N4347	2SD118	2SD218				2SD177	2SD88A-2		
2N4348							2SD340		
2N4350	2SC549	2SC598		2SG691		2SC542			
2N4354			_						
2N4355			1						
2N4359								Al .	
2N4383	2SC503	2SC960	2SC 480	2SC306	2SC696				
2N4384	2SC503	2SC 960	2SC 480	2SC306	2SC696	2SC200			1
2N4385	2SC503	2SC 960	2SC480	2SC306	2SC696	200200			
	200303	200300	200400	200000	200000				1
2N4386	2SC503	2SC 960	2SC 480	2SC306	2SC696	2SC200			

- 11		4	_	M.A	XIMU	M R	ATINGS	3					EL	ECTRICAL	L CHAR	ACTERI	STICS						
TYPE	USE	ERIA	É	Pc	Tj	Vcs	VCEO	1c	lce	90	Γ	hse		hfe	hie	hre	hoe	fr	NF	Cob	Coxrbb	OUTLINE	NOTE
,,,,,	UUL	MATERIAL	POLALITY	25°C (mW)	(°C)	(V)	(V)	(mA)	(μA)	Vos(V)	min.		ic (mA)		(Ω)	(×10)	(µ8)	*fae **fab (MHz)	(dB)	(pF)	(ps)	TO.	
2N4388		S	Р	20W	200	60	60		1,2.14	100(1)	25	100	500					(MI12)					
	SH	S	N	200	125	12	12			-	30	80	10	4						-	+		
	SH	S	N	310	135	60	40				50	150	150	20		-		200					
	SH	S	N	310	135	60	40				100	300	150	40				250	_				
	SH	S	P	310	135	40	40		 	-	50	150	150	30				150					
	SH	S	P	310	135	40	40				100	300	150	60				200			٠		
2N4409	S	S	N	310	135	80	50				60	400	1	- 00				200					
2N4410	S	S	N	310	135	120	80				60	400	i							ļ	<u> </u>		
	AH	S	Р	600	200	40	30	-			- 00	100		1000				100	-				
	AH	S	Р I	400	200	40	30							1000		-		100					
	AH	S	Ρ	600	200	40	30				_			1000				100		_			
	AH	S	Р	400	200	40	30	-						1000				100					
2N4418	S	S	N I	250	125	40	40				40	120	10	1000		-		500		<u> </u>			
2N4419	S	S	N	250	125	30	30				30	120	10					400					
2N4413 2N4420	S	S	N	250	125	40	40				30	120	30					350					
2N4421	S	S	N	250	125	30	30	\vdash		-	25	120	30			_		330			-		
2N4423	S	S	N	250	125	12	12			-	40	150	30					440					
2N4424	S	S	N	360	150	40	40	500	0.03	40	180	130	2	180				740			-	98	GE
2N4424 2N4425	S	S	N	360	150	40	40	500	0.03	40	180		2	180					-			98	GE
	AP	S	N	3. 5W	130	55	35	300	0.03	40	_	220	50	100				700				30	u.
-	AP	S	N	5. 5W		55	35				20	200	50		_			700					
	AP	S	N	10W		55	40	-			20	200	100	-		-		600					
	AH	_	N	600		50	30			-	40	130		45				000					
	AH	S	N	600	-	50	30				80	150	6	90									
	AHP	S	N	200	125	60	30				40	120	150	30				250					
	AHP	S	N	200	125	60	30				100	300	150		-			250					-
	AP	S	N	11.6W	123	65	40				10	200	125					400					
2N4452	S	S	P	350	200	45	45			-	115	300	50	135				200					
2N4453	S	S	P	300	200	. 43	18			-	40	300	30	133				400					
2N4872	SH	S	P	700	200	12	12			-	50	120	10	9				400	-				
	SH	S	N	360	200	40	15				110	150	10	7									
	AH	S	N	720	175	30	20				110	130	-	200				900			-		
	AH	S	N	720	175	40	25					-		200				800					
2N4876	AH	S	N	720	175	40	30				-			200				650			-	1	
	AP	S	N	10W	200	40	60				20	200	4A	200				4					
2N4890	S	S	P	IW	200	60	40			-	50	250	150	5				-					
2N4898	AP	S	P	25W	200	40	40		-	-	20	100	500	25				3			-		-
	AP	S	P	25W	200	60	60				20	100	500	25				3		-	1		
2N4910	AP	S	N	25W	200	40	40		_		20		500	25				3			+		
2N4910 2N4911	AP	S	N	25W	200	60	60			-	20	100	500	25				3			-		
2N4911 2N4916	SH	S	P	500	125	30	30				70	200	10	23				400			+		
2N4916 2N4917	SH	S	P	500	125	30	30			-	150	300	10					450			1		
	AP	S	P	30W	150	40	40			-	20	100	500	25				3					
2N4918	AP	S	P	30W	150	60	60			-	20	100	500	25				3			-		
	-	S	_	30W	150	40	40				20	100	500	25				3	<u> </u>				
	AP		N	30W	150						20	100	_	25		-		3					
	AP AP	S S	N	30W	150	60	60 80				20		500	25				3	-		-		
	_	S	N	IW	175	100	100			-	40	100 200	150	23				100		-	-		
	AH	_	_	IW.	175	_					40							100	ļ		-		
	AH	S	N			150	150					200	150	25					-	-	-		
	AH	S	N	1W	175	200	200		_		20	200	30	25				300					
2N4927	АН	S	N	IW	175	250	250				20	200	30	25				300	_	<u> </u>	-		
2N4944	A	S	N	600	125	80	40				40	100	150					60	L	-			
	A	S	Ν	600	125	80	60			<u> </u>	40	100	150					60 60		L.			
2N4945 2N4946	Α	S	Ν	600	125	80	40				100	300	150										

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N4388									
2N4389									
2N4400	2SC734			2SC1211	2SC1318	2SC 247		2SC875	
2N4401	2SC734			2501211	2SC1318	2SC1247		2SC875	
2N4402				2SA696					
2N4403				2SA696					
2N4409	2SC506	2SC1278	2SC857	2SC869	2SC1033				
2N4410	2SC506	2SC1278	2SC857	2SC869	2SC1033				
2N4412		2SA636	2SA715	2SA624		-			
2N4413		2SA636	2SA715	2SA624		_			
2N4414		2SA636	2SA715	2SA624					
2N4415	•	2SA636	2SA715	2SA624					
2N4418						_			
2N4419									
2N4420									
2N4421									
2N4423								1	
2N4424	2SC1382				2SC1318	2SC1247			
2N4425	2SC1382		-		2SC1318	2SC1247			
2N4428	2001302			2SC976	100.0.0	-001247			1
2N4428 2N4429				2SC976				,	
2N4429 2N4430		2SC892		2SC975	2SC1075	_			
2N4430 2N4432	2SC998	230892		2SC741	2SC456				
					2SC456				
2N4432A	2SC998			2SC741	2SC456				
2N4436	2SC998			2SC741					
2N4437	2SC998			250741	2SC456				
2N4440				2SC692	-				
2N4452								-	
2N4453									-
2N4872								-	-
2N4873									
2N4874	2SC503			2SC976					-
2N4875	2SC503			2SC976				-	
2N4876	2SC503			2SC976					
2N4877									
2N4890									
2N4898									
2N4899			4						
2N4910	L.								-
2N4911									-
2N4916									
2N4917									
2N4918									
2N4919									
2N4921									
2N4922									
2N4923									
2N4924									
2N4925									
2N4926									
2N4927				<u> </u>					
2N4944				2501211	2SC1318			2SC875	
2N4945				2501211					
2N4946	-	-		2501211	2SC1318			2SC875	
2N4946 2N4951				2001211	2001010				-

		A	1		AXIMU	M	RATING	iS	n					LECTRICA	L CHAR	RACTER	ISTICS	, ,	,	,	_	OUTLINE	
TYPE	USE	MATERIAL	POLALITY	Pc 25*C (mW)	Tj (*C)	V _{CS} (V)	V _{CE0}	I _C (mA)	lo (µA)	80 V ₀₈ (V)	min.	max.	Ic (mA)	hfe	hie (Ω)	hre (×10)	hoe	fr *fae **fab (MHz)	NF (dB)	Cob (pF)	Coxrbb (ps)	TO.	NOTE
2N4952	A	S	N	360	150	60	30				100	300	150				<u> </u>	250	_				
2N4953	A	S	N	360	150	60	30				200	+	150			1		250	_		_		
2N4954	A	S	N	360	150	_	30				60	-	150					250					
2N4957	A	S	P	200	200	30	30		T -		20	-			_			1200			1		
2N4958	A	S	Р	200	200	30	30				20	-						1000	-				
2N4959	А	S	Р	200	200	30	30				20	40	_				_	1000					
2N4964	А	S	P	200		50	40			T	30	120	0.01	40							 		
2N4965	А	S	P	200		50	40		-		80	400	0.01	100									
2N4966	Α	S	N	200		50	40				40	200	0.01	40					_				
2N4967	Α	S	N	200		50	40				100	600	0.01	100									
2N4968	Α	S	N	200		30	25				40	200	0.01	40									
2N4969	SH	S	Ν	200		50	30				40	120	150										
2N4970	SH	S	N	200		50	30				100	350	150								- 3		
2N4971	SH	S	Ρ	200		50	40				40	120	150										
2N4972	SH	Ş	Р	200		50	40				100	300	150										
2N4976	AHP	S	N	5W		55	30				20	250	50					1000					
2N4994	АН	S	N	200		60	45	30	0.1	30	40	160	10									18	GE
2N4995	АН	S	Ν	200		60	45	30	0.1	30	100	400	10									18	GE
2N4996	АН	S	Ν	200	L	30	18				50		2										
2N4997	АН	S	Ν	200		30	18				30	150	2										
2N5022	SH	S	Р	IW		50	50				25	100	500										
2N5023	SH	S	Р	IW		30	30				40	100	500										
2N5027	S	S	Ν	320	120		30				50	150	150										
2N5028	S	S	N	320	120		30				100	300	150										
2N5029	S	S	N	320	120		15				40	120	10										
2N5030	S	S	Ν	320	120		12				30		10									-	
2N5031	АН	S	Ν	200		15	10				25	300	1										
2N5032	АН	S	Ν	200		15	40				25	300	1										
2N5040	A·	S	Ρ	300	125	25	25				30	60	150					100					
2N5041	Α	S	Р	300	125	40	40				40	150	150					80					
2N5042	Α	S	Ρ	800	200	40	40				40	150	150					100					
2N5053	АН	S	Ν	200	200	30	15				25	150	2					1300					
2N5054	АН	S	Ν	200	200	30	15				25	150	2					1300					
2N5055	SH	S	Ρ	200	125	12	12				30	100	30										
2N5056	SH	S	Ρ	360	200	15	15				30	100	30										
2N5058		S	Ν	IW	200	300	300			[35	150	30										7
2N5059		S	Ν	IW	200	250	250				30	150	30										
2N5065	SH	S	Ν	2.5W	200	25	15				50	120	300					550					
2N5066	SC	S	Ν	400		30	20			oxdot								5					
2N5079	Α	S	Ν	1.8W		60	30				100	300	150					400					
2N5080	Α		Ν	1.8W		60	30]			200	500	150					500					
2N5081	-	S	Ν	1. 2W		70	50	-]			100	400	Į.	100		[600					
2N5082	АН	_	Ν	1.2W		60	30]			_	400	1	100				600	-				
2N5086	A	S	Ρ	310	135	50	50			_		500	0. 1	250		\Box		40					
2N5087	Á	_	Ρ	310	135	50	50			\rightarrow	_	800	0.	250				40					
2N5088	Α		Ν	310	135	35	35			\rightarrow		900	0.	350				50					
2N5089	Α	\rightarrow	Ν	310	135	30	25				400	1200	0.1	450		I		50					
2N5106	-	\rightarrow	Ν	800	200	60	30			I	100	300	150				.]	250				- 0	
2N5107			Ν	360	200	60	30	[100	300	150					250					
2N5112	\rightarrow		Ρ	34W	175	40	40				15	60	500	10				- 1					
2N5127			N	200	125	20	12				15	300	2	12									
2N5128	-	\rightarrow	-	200	125	15	12				35	350	50					1					
2N5130	-		Ν	200	125	30	12				15	250	8	12									
2N5131			Ν	200	125	20	15				30	500	10	25									
2N5132	Α	S	N	200	125	20	20	T	٦		30	400	10	20									

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N4952				<u> </u>					
2N4953									
2N4954									
2N4957					ļ				
2N4958									
2N4959		Ŷ							
2N4964				2SA696		2SA558			
2N4965				2SA696		2SA558			
2N4966	2SC506	2SC1278	2SC857	2SC869	2SC1033		_		
2N4967	2SC506	2SC1278	2SC857	2SC869	2SC1033				
2N4968				2SC711				2SC933FP	
2N4969				2SC1210	2SC1318	2SC1247A		2SC875	
2N4970				2SC1210	2SC1318	2SC1247A		2SC875	
2N4971					1				
2N4972									
2N4976		2SC831		2SC976		2SC 1058			
2N4994		2SC839	2SC 463				2SC 634	2SC933FP	
2N4995		2SC839	2SC463				2SC634	2SC933FP	
2N4996	_								
2N4997									
2N5022									
2N5023									
2N5027									
2N5028									_
2N5029									
2N5030			_	1					_
2N5031									
2N5032									
2N5040									
2N5041						19			
2N5042									
2N5053									
2N5054									
2N5055									
2N5056									
2N5058									
2N5059									
2N5065									
2N5066									
2N5079									
2N5080									
2N5081									L
2N5082									
2N5086									
2N5087					^				
2N5088	2SC733	2SC900		2SC871	2SC644		2SC 632		
2N5089	2SC 733	2SC900		230871	2SC644		2SC 632		
2N5106									
2N5107		,							
2N5112						_			
2N5127	2SC732	2SC838	2SC461	2SC711			2SC631A	2SC933FP	
2N5128			2SC1213	2SC1210	2501318	2SC1247A			
2N5130	2SC387A	2SC 922				2SC723 ·	2SC1129		
2N5131	-	2SC 1216		2SC619		2SC724		2SC933	
2N5132	2SC732	2SC838	2SC461	2SC711			2SC631A	2SC933FP	

	1		1	M	AXIMU	M R	ATING	S					El	ECTRICA	L CHAR	ACTER	ISTICS						
TYPE	USE	ERIA	POLALITY	Pc	Υj	Vcs	VCEO	Ic	Ici	90		hre		hfe	hie	hre	hoe	ĮŢ.	NF	Cob	Coxrbb'	OUTLINE	NOTE
		MATERIAL	20	25°C (mW)	(°C)	(V)	(V)	(mA)	(µA)	V _{OB} (V)	min.	max.	Ic (mA)	1	(Ω)	(×10)		*fae **fab (MHz)	(dB) ·	(pF)	(ps)	T0.	
2N5133	A	S	N	200	125	20	18				60	1000	T	50						- 8			
2N5134	SH	S	N	200	125	20	10				20	150	10										
2N5135	Α	S	N	300	125	30	25			- 20	50	600	10										
2N5136	A	S	N	220	125	30	20			1	20	400	150										
2N5137	A	S	N	300	125	30	20				20	400	150					 	_			-	
2N5138	A	S	P	200	125	30	20				50	_	0, 1	40		-					-	-	
2N5139	SH	S	P	200	125	20	20				40	-	1										
2N5142	SH	S	P	300	125	20	20				30		50								+		
2N5143	SH	S	Р	200	125	20	20				30		50								+		
2N5160	AHP	S	P	5W	123	60	40		-		10	_	50					500	-		+		
2N5161	AHP	S	P	20W	-	60	40	_			10	_	250	-		-		300	-		┼		
2N5172	A	S	N	200		25	25	100	0. I	25	100	500	10	100				200			-	98	GE
2N5174	A	S	N	200		90	75	25	0. 5	60	40	600	10	40				200			-	98	GE
2N5175	-	S	-	200		130	100	25		_		_		55				ļ				98	GE
	Α	_	N			_	_	_	0.5	60	55	-	10				-	-	<u> </u>	ļ			
2N5176	A	S	-	200		130	100	25	0.5	60	140	300	10	140		\vdash	_	\vdash			_	98	GE
2N5189	SH	S	N	IW	(F.C.	60	55		-		15	105		L			_		_		-		
2N5190	AP	S	N	40W	150	40	40		_		25	-	1.5A	20		_	-		_				
2N5191	AP	S	N	40W	150	60	60		<u> </u>		25	100	1.5A	20		<u> </u>	ļ		<u> </u>		-	\vdash	
2N5193	AP	S	Р	40W	150	40	40		L		25	100	1.5A	20						<u> </u>	_		
2N5194	AP	S	Р	40W	150	60	60				25	100	1.5A	20							<u> </u>		
2N5209	Α	S	N	310		50	50				100		0.1	150									
2N5210	Α	S	N	310		50	50				200		0. I	250									
2N5213	AHP	S	N	7. 5W	200	70	40				10		200					350					
2N5219	Α	S	N	310		20	15				35	500	2	35									
2N5220	Α	S	N	310		15	15				30	600	50	20									
2N5221	Α	S	Р	310		15	15				30	600	50	30									
2N5222	Α	S	N	310		20	15				20	1500	4	20									
2N5223	Α	S	N	310		25	20				50	800	2	50									
2N5224	SH	S	N	310		25	12				40	400	10										
2N5225	Α	S	N	310		25	25				30	600	50	30				· · · · ·					
2N5226	Α	S	P	310		25	25				30	600	50	30									
2N5227	Α	S	Р	310		30	30				50	700	2	10									
2N5232	Α	S	N	330	125	70	50	100	0.03	50	250	500	2	250					I KHZ			98	GE
2N5232A	Α	s	N	330	125	70	50	100	0.03	50	250		2	250					I KHZ			98	GE
2N5236	АН	S	N	IW	200	40	20				30		50					500	1.3				
2N5242	SH	s	P	500	200		20				25	_	500			_		170			<u> </u>		
2N5243	SH	S	P	500			30				25		500			-		170					
2N5244	SH	S	P	1W	200		40				150	300	10					450					
2N5249	A	S	N	330	125	70	50	100	0. 03	50	400	-	2	400				133	I KHZ			98	GE
2N5249A	A	S	N	330	125	70	50	100	0.03	50	400	_	2	400					1 KHZ			98	GE
2N5252	A	S	N	7W	123	300	300	100	0.03	50	400	120	100	400	-	-		30	3			30	GE
2N5252	A	S	N	7W		300	300				80	250	100			\vdash		30			-		
2N5262	SH	S	N	IW		75	50				35	230	100					30					
			-									400		\vdash		\vdash		E00					
2N5272	SH	S	N	360		40	40				100		10					500			-		
2N5276	S	S	N	360		25	15				30	90	1					600					
2N5279	АН	S	N	5W		400					40	-	20	 				15			<u> </u>		
2N5292	SH	S	Р	IW	200		12				. 40		30					800					
2N5295	AP	S	N	360	150	60	50				30	120	IA	20									
2N5296	AP	S	N	360	150	60	50				30	120	IA	20							<u> </u>		
2N5297	AP	S	Ν	360	150	60	70				20	\rightarrow	1.5A	25									
2N5298	AP	S	Ν	360	150	80	70				20	$\overline{}$	1.5A	25									
2N5305	AL	S	N	450		25	25	300	0. I	25	2K	_	2	2K				60					
2N5306	AL	S	N	400]	25	25	300	0. I	25	7K	70K	2	7K				60					
2N5306A	AL	S	N	400		25	25	300	0. 1	25	7K	70K	2	7K				60					
2N5307	AL	S	N	400		40	40	300	0.	40	2K	20K	2	2K				60					

		Ī		1					
TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N5133	2SC732	2SC838	2SC461	2SC711			2SC 631A	2SC933FP	
2N5134	2SC979	200100	2SC907H	2SC300		2SC203	2SC1128	2SC423	
2N5135			2SC1213	2SC1210	2SC1318	2SC1247A			
2N5136			2SC 1213	2SC1210	2SC1318	2SC1247A			
2N5137			2501213	2501210	2SC1318	2SC1247A			
2N5138				2SA696		2SA558			
2N5139				2SA696		2SA558			
2N5142				2SA696		2SA558			
2N5143		_		2SA696		2SA558			
2N5160									
2N5161									
2N5172	2SC1000		2SC458	2SC712		2SC1372	2SC633A	2SC933FP	
2N5 I 74	2SC506	2SC1279	2SC857	2SC869	2SC1033	2001012		20030011	
2N5175	2SC506	2SC1279	2SC857	2SC869	2SC 033				
2N5176	2SC506	2SC1279	2SC857	2SC869	2SC1033				
2N5189	200300	2001273	200001	200000	2001000				
2N5190				-					
2N5191				 					
2N5191									
2N5194									
2N5 209									
	·								
2N5210									
2N5213									
2N5219									
2N5220									
2N5221									
2N5222									
2N5223									
2N5224									
2N5225									
2N5226									
2N5227									
2N5232	2SC979		2SC984	2SC7+4		2SC205			
2N5232A	2SC979		2SC984	2SC714		2SC205			
2N5236									
2N5242	*			,					
2N5243									
2N5244			4						
2N5249	2SC979		2SC984	2SC714		2SC205			
2N5249A	2SC979		2SC984	2SC714		2SC205			
2N5252						-1			
2N5253				1				*-	
2N5262									
2N5272				1					
2N5276									
2N5279									
2N5292									
2N5295									
2N5296			9						
2N5297									
2N5298						_			
2N5305									
2N5306									
2N5306A									
2N5307	in								

		A	_		AXIMU	M R	ATING	S					EL	ECTRICA	L CHAR	ACTER	ISTICS					007105	
TYPE	USE	MATERI	POLAUTY	Pc 25°C	Tj (*C)	VcB (V)	V _{CEO}	lc (mA)	lc (uA)	80 V ₀₈ (V)	min.	hee		hfe	hie (Ω)	hre (×10)	hoe (mg)	f T *fae **fab (MHz)	NF (dB)	Cob (pF)	Coxrbb (ps)	OUTLINE TO.	NOTE
2NIC 200				(mW)	, 0,	-	1		-				Ic (mA)		1327	1//10/	1,007		(00)	1017	(ps)		
2N5308 2N5308A	AL	S	N	400	-	40	40	300	0. 1	40	7K	70K	_	7K				60		ļ			GE
2N5308A 2N5309	AL	S	N	400		40	40	300	0. 1	40	7K	70K		7K				60					GE
2N5310	A	S	N	330		70 70	50	100	0.01	50	60		0.1	66								98	GE
2N5311	A	S	N	330	-	70	50	100	0.01	50	100	300	0. I	10								98	GE
2N5321	SP	S	N	10W	200	75	50	100	0.01	50	250 40	500 250	500					50				98	GE
2N5322	SP	S	P	10W	200	100	75	-74			30	130	500					50					
2N5323	SP	S	P	10W	200	75	50			\vdash	40	250	500					50					
2N5334	SP	S	N	6W	200	60	60		-	_	30	150	1A					40		-			
2N5354	A	S	P	360	125	25	25	350	0. 1	25	40	120	50	32		-		250				98	GE
2N5355	A	S	P	360	125	25	25	350	0. 1	25	100	300	50	80				250				98	GE
2N5356	A	S	P	360	125	25	25	350	0.1	25	250	500	50	200				250				98	GE
2N5365	A	S	P	360	125	40	40	700	0. I	40	40	120	50	32				250			-	98	GE
2N5366	A	S	P	360	125	40	40	700	0. 1	40	100	300	50	80				250				98	GE
2N5367	A	S	P	360	125	40	40	700	0.	40	250	500	50	200				250				98 .	GE
2N5368	A	S	'n	360	150	60	30	500	0. 05	40	60	200	150	200				250				18	GE
2N5369	A	S	N	360	150	60	30	500	0.05	40	100	300	150			Н		250		-		18	GE
2N5370	A	S	N	360	150	60	30	500	0. 05	40	200	600	150			-		250				18	GE
2N5371	A	S	N	360	150	40	30	500	0.05	40	60	600	150					250				18	GE
2N5372	A	S	P	360	150	60	30	500	0.05	40	40	120	150	-				150			-	18	GE
2N5373	A	S	P	360	150	60	30	500	0. 05	40	100	300	150			-		150			_	18	GE
2N5374	A	S	P	360	150	60	30	500	0. 05	40	200	400	150					150				18	GE
2N5375	A	s	P	360	150	40	30	500	0. 05	40	40	400	150	-				150				18	GE
2N5376	A	S	N	360	150	60	30	300	0.00	40	100	500	0.01	120				300				10	UL
2N5377	A	s	N	360	150	60	30				40	200	0.01	100				300		-			
2N5378	A	S	P	360	150	40	30				100	500	0.01	120				200					
2N5379	A	S	P	360	150	40	30				_	200	0.01	100				200					
2N5417	SH	Š	N	500	.00	40	35				80	250	150	100		\vdash		250		L			
2N5418	A	s	N	360	125	25	25	500	0. 1	25	40	120	50	25				250				98	GE
2N5419	A	S	N	360	125	25	25	500	0. 1	25	100	300	50	70				250				98	GE
2N5420	A	S	N	360	125	25	25	500	0. 1	25	250		_	150				250				98	GE
2N5421	AHP	S	N	3W		36	18		0		10	60	100	100				300				- 30	
2N5422	AHP	S	N	5W	_	36	18	_			10	60	500					300					
2N5423	AHP	S	N	12W		36	18	-			20	70	IA				_	300					
2N5424	-	man.	N	20W		36	18				20	100	2A			_		250					
2N5447	Α	S	N	360		40	25	200	0. 1	20	60	300,										18	GE
2N5448	-	S	N	360		50	30	200	0. 1	20	30	150	50					-+				18	GE
2N5449	A	S	N	360		50	30	800	0. 1	20	100	300	50					-+				18	GE
2N5450	A	s	N	360		50	30	800	0.1	20	50	150	50			H		\rightarrow			+	18	GE
2N5451	Α	S	N	360		50	40	800	0.1	20	30	600	50									18	GE
2N5455	SH	S	Р	340	200	15	15				30	120	30		$\overline{}$			450			\neg		
2N5456	SH	S	Р	340	200	25	25				30		30					450					
2N5471	AP	-	N	5W		50	30			\neg	20		50										
2N5482			N	IOW		50	30				20		50										
2N5483	-	_	N	20		45	30				20	\neg	100										_
2N5489	_	S	N		200	100	100	\neg			15	50	40A	10									
2N5590	AP	s	N	30W		36	18				- 5	\exists	250			-+	\neg	200					
2N5597	AP	S	Р	20W	200	80	60				70	200	IA	50		_		60			\neg		
2N5598	-	_	N	20W	200	80	60		\neg		_	200	IA	50		\dashv	$\neg \neg$	60					
2N5606	AP	S	N	25W	200	80	60				70	200	2. 5A	50		\neg		70	-				
2N5614	AP	S	N	58W	200	80	60				_		2. 5A	50				70					
2N5637	Α	S	N	30W		60	35				5		500					400					
2N5642	Α	S	N	30W		65	35				5		200				\neg	250					
2N5644	AP	S	N	3. 5W		36	18				15		100					400					
2N5645	ÁΡ	S	N	12W		36	18	_ [15		500					400					

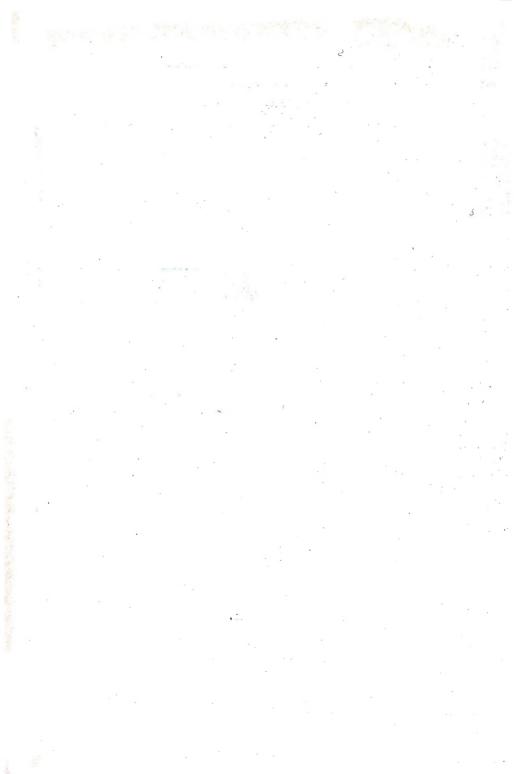
TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N5308									
2N5308A									
2N5309	2SC979		2SC984	2SC714		2SC205			
2N5310	2SC979		2SC984	2SC714		2SC205			
2N5311	2SC979		2SC984	2SC714		2SC205			
2N5321					1 4				
2N5322	•								
2N5323									
2N5334				-					
2N5354		2SA643			2SA719				
2N5355		2SA643			2SA719				
2N5356		2SA643			2SA719				
2N5365		2SA571	2SA537H		2SA546				
2N5366		2SA571	2SA537H		2SA546			100	
2N5367		2SA571	2SA537H		2SA546				
2N5368	2SC495				2SC1347	2SC1247			
2N5369	2SC495				2SC1347	2SC1247			
2N5370	2SC495				2SC1347	2SC1247			
2N5371	2SC495				2SC1347	2SC1247			
2N5372		2SA607			2SA546	2SA580			
2N5373		2SA607			2SA546	2SA580			
2N5374		2SA607	•		2SA546	2SA580			
2N5375		2SA607			2SA546	2SA580			
2N5376									
2N5.377									
2N5378			*						
2N5379		_							
2N5417									
2N5418	2SC496			2SC1209	2SC1346	2SC1246A			
2N5419	2SC496		_	2SC1209	2SC1346	2SC1246A			
2N5420	2SC496			2SC1209	2SC1346	2SC1246A			
2N5421		2SC891		2SC910	2SC731				
2N5422				2SC910					
2N5423				2SC 702					
2N5424	2SC1121			2SC 702					
2N5447		2SC1216	2SC321H)	2SC703		2SC131		2SC1175	
2N5448		2SC1216			2SC1318			2SC1175	
2N5449		2SC97A	2SC 480			2SC1150	-		
2N5450		2SC97A	2SC 480			2SC1150			-
2N5451		2SC97A	2SC 480			2SC1150			
2N5455	-		200.00						
2N5456	_								
2N5471									
2N5482								<u> </u>	
2N5483						-			
2N5489		-							
2N5590									
2N5597									
2N5598		-							
2N5606				 					
2N5614						-			
2N5637									
2N5642									
2N5644				2SC909	2SC731				
	2001121	2SC892		2SC909 2SC975	2SC1075				
2N5645	2SC1121	230832	1	2303/3	2501075		•		

		3	1		AXIMU	M R	ATINGS	5			_			ECTRICA	L CHAR	RACTER	ISTICS				,	OUTLINE	
TYPE	USE	MATERI	POLALIT	Pc 25°C (mW)	Tj (°C)	Vce (V)	V _{CE0} (V)	I _C (mA)	lcε (μA)	Vos(V)	mia.	hrt max.	Ic (mA)	hfe	hie (Q)	hre (×10)	hoe (µඊ)	f r *fae **fab (MHz)	NF (dB)	Cob (pF)	Coxrbb (ps)	TO.	NOTE
2N5646	AP	S	N	30W	1	36	18		_		15		IA					400	v		+	-	
2N5650	AH	S	N	150		20	15				30	300	300			<u> </u>		2000		_			
2N5651	AH	S	N	150		20	15				30	300	300		_	-		2000			-		
2N5652	AH	S	N	150		20	15	-	_	-	30	300	300		_	-		2000			_		
2N5655	AP	S	N	20W	150	275	250				30	250	250	20				2000					
2N5656	AP	s	N	20W	150	325	300				30	250	100	20		_		_	_		-		
2N5660	SP	S	N	2011	200	250	200				40	150	500					20	L	<u> </u>	+		
2N5661	SP	S	N		200	400	300				40	150	500			_		20					
2N5662	SP	S	N		200	250	200				40	150	500		_			20			-		
2N5663	SP	S	N		200	400	300				40	150	500					20	-	-		\vdash	
2N5682	AP	S	_	10)44		-	_				_			40		_					-		
2N5687	₩—		N	10W	200	120	120				40	150	250	40				30			-		
	AP	S	-	5W		40	20				15		50					.			-	-	
2N5688	AP	S	N	10W		40	20				15		50								+		_
2N5689	AP	S	N	25W		60	40				15		100								+		
2N5690	AP	S	N	50W		50	30				10		100			-			_		-	-	
2N5697	AP	S	N	3. 5W		40	18			_	30		40										
2N5698	AP	S	N	5W		40	18			_	30		40								_		
2N5699	AP	S	N	10W		40	18				15		50							_	_		_
2N5700	AP	S	N	35W		40	18				30	_	50			-					<u>. </u>		
2N5701	AP	S	N	35W		40	18				30		50	1									
2N5703	AP	S	N	750		40	18				15		50									ļ	
2N5704	AP	S	Ν	25W		40	18				15		50										
2N5705	AP	S	N	44W		36	18				15		100										
2N5710	AP	S	N	3. 5W		40	20				20		10										
2N5712	AP	S	Ν	25W		60	40				10		100										
2N5713	Α	S	Ν	45W		60	40				10		10								1		
2N5764	АН	S	Ν	IOW		55	25				20		100										
2N5765	AΗ	S	N	19W		55	25				20		100										
2N5766	AH	S	N	5W		55	25				20		50										
2N5767	АН	S	Ν	10W		55	25				20		100										
2N5768	АН	S	Ν	20W		55	25				20		100										
2N5782	AP	S	Р	10W	200	65	65				4		3. 2A	25				8					
2N5783	AP	S	Р	10W	200	45	45				4		3. 2A	25				8					
2N5785	ΑP	S	N	10W	200	65	65				- 4		3. 2A	25				2. 5					
2N5786	AP	s	N	10W	200	45	45				4		3. 2A	25				2, 5					
2N5810	Α	S	N	500	135	35	25	750	0.1	25	60	200	2					100				18	GE
2N5811	Α	S	N	500	135	35	25	750	0.1	25	60	200	2					100			1	18	GE
2N5812	Α	S	N	500	135	35	25	750	0.1	25	150	500	2					135				18	GE
2N5813	Α	S	Р	500	135	35	25	750	0.1	25	150	500	2					135				18	GE
2N5814	Α	S	N	500	135	50	40	750	0.1	25	60	100						100			—	18	GE
2N5815	Α	S	Р	500	135	50	40	750	0.1	25	60	120	2					100				18	GE
2N5816	Α	S	N	500	135	50	40	750	0.1	25	100	200				1		120				18	GE
2N5817	A	S	Р	500	135	50	40	750	0.1	25	100	200				1		120				18	GE
2N5818	A	S	N	500	135	50	40	750	0.1	25	150	300				<u> </u>		135			1	18	GE
2N5819	A	S	Р	500	135	50	40	750	0.1	25	150	300						135			1	18	GE
2N5820	Ā	s	N	500	135	70	60	750	0.1	25	60	120			-	+	-	100	-	 	+	18	GE
2N5821	A	s	Р	500	135	70	60	750	0.1	25	60	120			-	+		100		†	+	18	GE
2N5822	A	S	N	500	135	70.	60	750	0.1	25	100	200			-			120			+	18	GE
2N5823	A	S	P	500	135	70.	60	750	0.1	25	001	200				+		120			+	18	GE
2N5824	A	S	N	360	125	50	40	100	0.1	40	60	120		60	-	+		90		+	65	18	GE
	-		_				_			_		$\overline{}$				+		_	-	-	_	_	
2N5825	Α_	S	N	360	125	50	40	100	0.05	40	100	200		100		+-		90			65	18	GE
2N5826	Α_	S	N	360	125	50	40	100	0.05	40	150	300		150		-		90		-	65	18	GE
2N5827	Α	S	N	360	125	50	40	100	0.05	40	250	500	2	250	-	-	-	90	_		65	18	GE
2N5828	Α	S	N	360	125	50	40	100	0.05	40	400	800	2	400		1		90		_	65	18	GE
2N5835	SH	S	N	200	125	15	10				25		10					1					

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISH	MATSUSHITA	FUJITSU	SONY	SANY0	NOTE
2N5646									
2N5650									
2N5651									
2N5652									
2N5655									
2N5656									
2N5660							· ,		
2N5661									
2N5662			_						
2N5663									
2N5682					_				
2N5687									
2N5688				-					1
2N5689									T
2N5690						_			
2N5697	-				-				
2N5698		-			_	_			
2N5699		-							
2N5700				 					
2N5700 2N5701		-		 				,	
					-				_
2N5703			-						+
2N5704							_		+
2N5705					-				+
2N5710									+
2N5712									+
2N5713		*				_			+
2N5764								-	+
2N5765		_						ļ .	-
2N5766							1		
2N5767									_
2N5768									-
2N5782									
2N5783								_	
2N5785									
2N5786									
2N5810		2SC97A	2SC480			2SC1150			
2N5811		2SC97A	2SC480			2SC1150			
2N5812		2SC97A	2SC480			2SC1150			
2N5813	2SA682	2SA717				2SA580			
2N5814		2SC97A	2SC 480			2SC1150			
2N5815	2SA682	2SA717				2SA580			
2N5816	LOAUL	2SC97A	2SC 480			2SC1150			
2N5817	2SA682	2SA717	220:-2			2SA580			
2N5817	20/1002	2SC97A	2SC480			2SC1150		T -	
2N5818 2N5819	2SA682	2SA717	200,400			2SA580	İ		
2N5819 2N5820	20A002	2SC97A	2SC480	+	1	2SC1150			
	2SA682	2SA717	200400			2SA580			
2N5821	20A082	2SA/17 2SC97A	2SC480	 		2SC1150	1		
2N5822	00.4.000		230480	+	_	2SA580	-		
2N5823	2SA682	2SA717	2001245	2SC1313	_	204300			
2N5824	2SC1382	2SC1008	2SC1345		+	+	_	-	+
2N5825	2SC1382	2SC1008	2SC1345	2SC1313	-		-		_
2N5826	2SC1382	2SC1008	2SC1345	2SC1313	-			_	+
2N5827	2SC1382	2SC1008	2SC1345	2SC1313	-				+-
2N5828	2SC1382	2SC1008	2SC1345	2SC1313				_	-
2N5835			1	1	1				

		A	~		AXIML	M	RATING	S					E	LECTRIC	AL CHA	RACTER	ISTICS						
TYPE	USE	MATERI	POLALITY	Pc 25*C (mW)	Tj (°C)	Vcs (V)	VCEO (V)	lc (mA)	(μ A)	vos(V	min.	hre	Ic (mA)	hfe	hie (Q)	hre (×10)	hoe (µ°0)	f r *fae **fab (MHz)	NF (dB)	Cob (pF)	Coxrbb'	OUTLINE TO.	NOT
2N5841	SH	S	N	350	200	20	10	-	1,2.1	- Cal(Y	25	IIIux.	25				V	2000	17	(p. 7	1,007		
2N5842	SH	S	N	350	200		10	_		-	25		25		┼			2000			-	-	
2N5851	S	S	N	500	200	-	15	-		-	40	_	10	-		+		800	ļ		1		
2N5852	S	S	N	500	200	_	15	_		1	40		10		-			1000		ļ			
2N5855	A	S	Р	750	135	_	55			1	-	300	_					100				L	
2N5856	A	S	N	750	135	60	55	_		+	50	_		 		-		100					_
2N5857	Α	s	Р	750	135	80	80	T		_	50	300	150	_				100			_		
2N5858	Α	S	N	750	135	80	80				50	300						100					
2N5961	АН	S	N	625	135	60	60		-		150	700	10	_	1			150					
2N5998		S	N	360	150	35	25	500	0. 03	25	150	300	10					250	10KH2 0.5			98	GE
2N5999		S	Р	360	150	35	25	500	0.03	25	150	300	10	_				250	10KH2 0.5			98	GE
2N6000	Α	S	N	360	150	35	25	500	0.2nA	25	100	300	10					250	IOKHZ		53	18	GE
2N6001	Α	S	Р	360	150	35	25	500	0.2nA	25	100	300	10	_				250	IOKHZ		80	18	GE
2N 60 02	Α	S	Ν	360	150	35	25	500	0.2nA	25	250	500	10					250	10KHZ		55	18	GE
2N 60 03	Α	S	Р	360	150	35	25	500	0.2nA	25	250	500	10					250	IOKHZ 3		115	18	GE
2N6004	Α	S	Ν	360	150	50	40	500	0.2nA	25	100	300	10					250	IBKHZ 3		62	18	GE
2N 60 05	Α	S	Р	360	150	50	40	500	0. 2nA	25	100	300	10					250	IØKHZ 3		70	18	GE
2N 60 06	Α	S	Ν	360	150	50	40	500	0.2nA	25	250	500	10					250	TOKHZ		62	18	GE
2N 60 07	Α	S	Ρ	360	J50	50	40	500	0.2nA	25	250	500	10					250	IOKHZ 3		100	18	GE
2N6008	Α	S	Ν	360	150	35	25	500	0. 03	25	250	5 0 0	10					250	10KHZ 0.5			98	GE
2N6009	Α	S	₽	360	150	35	25	500	0.03	25	250	500	10					250	IBKHZ 0.5		-	98	GE
N6010	Α	S	N	625	150	50	40	800	0.01	25	100	300	10					200	TOKHZ			18	GE
N6011	Α	S	Р	500	150	50	40	800	0.01	25	100	300	10					200	IOKHZ 3			18	GE
N6012	Α		N	625	150	50	40	800	0.01	25	250	500	10					200	IOKHZ 3			18	GE
N6013	Α	S	Р	500	150	50	40	800	0.01	25	250	500	10					200	10KHZ 2			18	GE
N6014	\rightarrow	\rightarrow	Ν	625	150	70	60	800	0.01	25	100	300	10					200	IOKHZ S			18	ĠE
N6015	Α	_	₽	500	150	70	60	800	0.01	25	100	300	10					200	10KHZ 3			18	GE
N6016	-		Ν	675	150	70	60	800	0.01	25	250	500	10					200	10KHZ =			18	GE
N6017		S	Р	500	150	70	60	800	0.01	25	250	500	10					200	IOKHZ 2			18	GE
N6076		S	Ρ		150	25	25	100	0. I	25	100	500	10	100				200				98	GE
N6218	_	_	N		150	_	300	50	0.5	250	01		2	20				50				18	GE
N6219			N		150			50	0.5	200	10		2	20				50				18	GE
N6220			Ν	\rightarrow	150			50	0.5	150	10		2	20				50				18	GE
N6221	$\overline{}$	_	N		150	150		50	0.5	100	10	\rightarrow	2	20				50				18	GE
N6222	_	-	N	-	150	60	60	100	0. 05	60	\rightarrow	200	$\overline{}$	300								18	GE
N6223			Р	_	150	60	60	100	0.05	60		200	_	300								18	GE
N6224		-	N	_	150	60	60	100	0. 05	60		300		300]							18	GE
N6225	_	S	Р	360	150	60	60	100	0. 05	60	150	300	2	300			\Box					18	GE
	\dashv	\dashv	+		_	_		\perp		_													
	\dashv	-	+			-	_	\dashv		_		_									[
	-+	+	+			\dashv	_	\dashv				_				_							
	\dashv	4	\downarrow		\dashv	_				_													
	-+	+	+		-		_			_	-	_									$ \bot $		
	-+	+	+		-	-		\dashv		_	-	_									$-\!\!\perp$		
	+	+	+	-	\dashv	-	4	\dashv		_	_		\rightarrow			\perp							
	-+	+	+	\rightarrow	-	-	\dashv	\dashv		\rightarrow	_	\rightarrow		_	\rightarrow	\rightarrow	-	_	_	\rightarrow	\dashv		
	+	+	+	\rightarrow		-	_	\dashv		-	\rightarrow	_		_									
	+	+	+	\rightarrow	\dashv	\dashv	\dashv	-		\dashv	-		_	-	_						\perp		
	-	+	+	-+			+	\dashv		\rightarrow		-	_			_	_	\rightarrow		\rightarrow	_		
-	+	+	+	+	-	\dashv	\dashv	\rightarrow	-	\dashv	+	_	\rightarrow	-		\rightarrow	\dashv			\rightarrow	\rightarrow		
	-	+	+	-	_	-	4			_	-+	_								_		\perp	
	-	+	+			-	\dashv	\rightarrow		\rightarrow	_	4						_			\perp		
	-	+	+		-	-	-+	\dashv			\dashv	4		\perp	_	_							
	- 1		- 1					- 1				- 1									- 1	- 1	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N584 i	-			ā					
2N5842		_							-
2N5851						<u> </u>			
2N5852									~
2N5855					-				
2N5856									
2N5857					 				
2N5858 2N5961	_	-			-				
2N5998	2SC1382		2SC1213	2SC1211	2SC1318				
2N5999	2301362		2301213	2001211	2SA720				
2N6000	2SC1382		2SC1213	2SC1211	2SC1318				
2N6001	2501302	-	EGGIETO		2SA720	-			
2N6002	2SC1382	_	2501213	2SC1211	2SC1318				
2N6003					2SA720				
2N6004	2SC1382		2SC1213	2SC1211	2SC1318				Ŧ
2N6005					2SA720				
2N6006	2SC1382	-	2SC 2 3	2SC1211	· 2SC1318				
2N6007					2SA720				
2N6008	2SC1382		2SC1213	2SC1211	2SC1318			*	
2N6009					2SA720				
2N6010	2SC495	2SC959			2SC1407				
2N6011	2SA682	2SA717				2SA580	2SA706		
2N6012	2SC495	2SC959			2SC1407				
2N6013	2SA682	2SA717				2SA580	2SA706		
2N6014	2SC495	2SC959			2SC1407				
2N6015	2SA682	2SA717				2SA580	2SA706		-
2N6016	2SC459	2SC959			2SC1407				
2N6017	2SA682	2SA717				2SA580	2SA706		
2N6076		2SA710	2SA741			2SA559		2SA659	
2N6218	2SC505	2SCII03A							1
2N6219	2SC505	2SC1103A							
2N6220	2SC505	2SC1103A					2SC1127		
2N6221	2SC505	2SC1103A		1			2501127		
2N6222	2SC734		2SC154C	2SC1211				2SC933	
2N6223	2SA561			2SA697	2SA546			40.0400	-
2N6224	2SC734		2SC154C	2SC1211				2SC933	-
2N6225	2SA561			2SA697	2SA546				
	_								
		0							
									_
			_						
	.4					-		-	



PHILIPS

	_			_																			
		IAL.	7		XIMUM	RAT	INGS				_		ELE	CTRICAL	CHARA	CTERI	STICS	fr	_		1	OUTLINE	
TYPE	USE	MATERIAL	POLALITY	Pc 25°C (mW)	τ _j (τ)	Voe (V)	¥œ (∀)	lc (mA)	lα (μA)	V08(V)	min.	max.	Ic(mA)	hfe	hie (Q)	hre (×10)	hoe (μδ)	*fae **fao (MHz)	NF (dB)	Cob (pF)	Coxrbb (ps)	TO:	NOTE
AC125	LF	G	Р	500	90	32	12	100	10	10	100		2	125	1.7K	6.5	80	1.7	i KHZ				
AC126	LF	G	Р	500	90	32	12	100	10	10	140		2		2.4K		100	2.3	I KHZ			ı	
AC 127	LF	G	N	340	100	32	16	500	15	10	100		20					2.5	I KHZ			ı	AC127/01
AC 28	LF	G	Р	I W	100	32	16	I A	10	10	55	175	50					1.5				i	AC128/01
AC132	LF	G	Р	500	90	32	12	200	10	0.5	135		20					2	1 KH2			- 1	AC132/01
AC 87	LF	G	N	1 W	90	25	15	2 A	15	25	100	500			_			5				ı	AC187/01
AC188	LF	G	Р	I W	90	25	15	2 A	20	25	100	500	1					1.5				-	AC188/01
AF 124	HF	G	Р	60	75	32	15	10	90	6	150		1					75	100 MHZ 8			72	
AF 125	HF	G	Р	60	75	32	15	10	1.2	6	150		- 1					75	100 MHZ 9.5			72	
AF126	HF	G	Р	60	75	32	15	10	1.2	6	150		1					75	10.7MHZ 3			72	
AF 127	HF	G	Р	60	75	32	15	10	1.2	6	150		- 1					75	1 MHZ 1.5			72	
AF 139	HF	G	Р	60	90	20	15	10	0.5	20								550	800 MHZ 7		3	72	
AF239	HF	G	Р	60	90	20	15	15	0.5	20								650	200 MHZ 3			72	
AF239S	HF	G	Р	60	90	20	15	15										780	800 MHZ 5			72	
AF 267	HF	G	Р	60	90	20	15	10										780	9 00 MHZ 6			P-10	
ASY26	SW	G	Р	150	85	30	15	200	7	30	45		10	50	750	5	65	8				5	
ASY27	S₩	G	Р	150	85	25	15	200	7	25	80		10	90	1.4K	7.5	100	4				5	
ASY28	SW	G	N	150	85	30	15	200	7	30	43		10	50	750	3.5	45	14				5	
ASY29	SW	G	N	150	85,	25	15	200	7	25	113		10	90	1.4K	5	70	20				5	
ASY73	S₩	G	N	140	75	30	15	400	3	5	20		200					4				5	
ASY74	SW	G	N	140	75	30	15	400	3	5	35		200					6				5	
ASY75	SW	G	N	140	75	30	15	400	3	5	50		200					10				5	
ASY76	S₩	G	Р	500	85	40	32	1 A	4.5	10	20		600					0.9	I KHZ			5	
ASY77	s₩	G	Р	500	85	60	60	I A	4.5	01	20		600					0.9	1 KHZ 1 5			5	
ASY80	S₩	G	Р	500	85	40	40	ΙA	4.5	01	40		600					0.9	I KHZ I S			5	
ASZ15	Р	G	Р	30 W	90	100	60	8 A	3 mA	100	20	55	ΙA					0.2				3	
ASZ16	Р	Ģ	Р	30W	90	60	32	8 A	3 mA	60	45	130	i A					0.25				3	
ASZ17	Р	G	Р	30 W	90	60	32	8 A	3 mA	60	25	75	ΙA					0.22				3	-
ASZ18	Р	G	Р	30 W	90	100	32	8A	3 mA	100	30	110	ΙA					0.22				3	
ASZ21	S₩	G	P	120	85	20	15	50			30		10					300				18	
AFY16	HF																						
AFY40	HF																					L	
AFY12	HF													L									
BC 107	LF	S	N	300	175	50	45	200	15	20				330	4.5K	2	30	300	10KHZ 1,4			18	
BC 108	LF	S	N	300	175	30	20	200	15	20				330	4.5K	2	30	300	10KHZ 1.4			81	
BC 09	LF	S	N	300	175	30	20	200	15	20				330	4.5	2	30	300	I OKHZ		ļ	18	
BC 46	LF	S	N	50	125	20	20	50			80	55 0		220	30 K	25	20					P-I	
BC 147	LF	s	N	300	125		45	200	5	20				125			L	300	10KHZ	ļ		P-2	
BC 48	LF	S	-	300	125		20	200	5	20				125		_		300	10KHZ 1.4			P-2	
BC 149	LF	S	N	300	125		20	200	5	20				240	ļ	_		300	10KHZ 1.4			P-2	
BC157	LF	S	Р	300	125		45	200	l n A	20				75			<u> </u>	150	10KHZ 1.2			P-2	
BC158	LF	S		300	125		20	200	l n A	20				75		<u> </u>		150	1.0KHZ 1.2			P-2	
BC 159	LF	S	-	300	125		20	200	InA	20			<u></u>	125	_			150	10KHZ .		1	P-2	
BC 177	LF-	<u> </u>		300	175		45	200	l n A	20				75				150	10KHZ 1-2	ļ	1	18	
BC178	LF	S	$\overline{}$	300	175		25	200	InA	20				75				150	10KHZ 1.2		ļ	81	
BC179	LF	S		300	175		20	200	l n A	20	2			75		_	<u> </u>	150	10KHZ 1.2	_		18	
BC200	LF	S	Р	50	125	20	20	50	100	20	50	400	0.2	75	12K	13	13	90	10KHZ 1.5		<u> </u>	P-1	
BC237	LF	S		300	125	ļ	45	200	5	20				125			L	300				P-3	
BC238	LF	S		300	125	\vdash	20	200	5	20	<u> </u>			125				300			_	P-3	
BC239	LF	S	-	300	125		20	200	5	20	_			240	<u> </u>	_		300			<u> </u>	P-3	
BC307	LF	S		300	125		45	200	InA	20	_			75				150	I KHZ			P-3	
B:C308	LF	S	Р	300	125		25	200	l n A	20				75				150	I KHZ			P-3	
BC309	LF	S		300	125		20	200	i nA	20				125				150	I KHZ		1	P-3	_
BC327	LF	S		625	150		45	ΙA	0.1	20	100	600	100					100			1	P-4	
BC328	LF	S	Р	6 25	150		25	1 A	0.1	20	100	600	100					100				P-4	<u> </u>

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
AC 25		2SB 108							
AC 26		2SB 108							
AC 127							2SD 127		
AC 28					2SB 481			2SB374	
AC I 32	-	2 SB 108			1			· _	
AC187		2SD 78	2SD 121H						
AC188		2SB 504							
AF I 24		100			2SA 100	2SA 273			_
AF125					2SA 100	2SA 273			ļ
AFI26					2SA 100	2SA 273	·		
AFI27					2SA 100	2SA 273			
AF 39							2SA 456		-
AF239							2SA 456		
AF239S							2SA 456		
AF267							2SA 456		ļ
ASY26		2 S A 759	2SA 673A	2SA 696					_
ASY27		2SA 759	2SA 673A	2SA 696					
ASY28		2SC 1216		2SC 619					
ASY29		2SC 1216		2SC 619					
ASY73	2SC 735			2SC 1210		2SC 1246		,	
ASY74	2SC 735			2SC 1210		2SC 246			
ASY75	2SC 735			2SC 1210		2SC 1246			
ASY76				2SB 458A					
ASY77				2SB 458A					
ASY80				2SB 458A					
ASZ15	2SB 531						2SB 518		
ASZ16	2 SB 531						2SB 518		
ASZ17	2SB 531						2SB 518		
ASZ18	2SB 531						2SB 518		
ASZ21	2SA 538	2SA 406							
AFY16									
AFY40									
AFYI2									
BC 107	2SC 734			2SC 620		2SC 725	2SC 1364		
BC 108	2SC 734			2SC 620		2 SC 725	2SC 1364		
BC109	2SC 734			2SC 620		2SC 725	2SC 1364		
BC 46	2SD 44		2SD 77		2SC 828				
BC 147	2SC 734			2SC 620			2SC 1364		
BC 148	2SC 734		*	2SC 620			2SC 1364		
BC 149	2SC 734			2SC 620			2SC 364		
BC157		2SA 718		2SA 696					
BC158		2SA 718		2SA 696					
BC159		2SA 718		2SA 696					
BC177		2SA 718		2SA 696					
BC178	<u></u>	2SA 718		2SA 696					
BC179		2SA 718		2SA 696					
BC200	2 SA 495	2SA 542			2 SA 564 A	2SA 556	2SA 677	2SA 609	
BC237	2 SC 734		*	2 SC 620		2SC 725	2SC 1364		
BC238	2 SC 734			2SC 620		2SC 725	2SC 1364		
BC239	2SC 734			2SC 620		2SC 725	2SC 1364		
BC307		2SA 718		2SA 696					
BC308		2SA 7J8		2 S A 696					
BC309		2SA 718		2SA696					
BC327	2SA 513	2SA 606	2 SA 537		2SA 546				
BC328	2SA 513	2SA 606	2SA 537		2SA 546				

		یہ	>	МА	XIMUM	RA	TINGS						ELE	CTRICAL	L CHAR	ACTERI	STICS				_		
TYPE	USE	ERIA	POLALITY	Pc	Ţj	Vos	Voso	lc	1 c	380		hre		hfe	hie	hre	hoe	f T	NF	Сор	CoXrbb	OUTLINE	NOTE
		MATERI	전	25℃ (m₩)	(7)	(V)	(V)	(mA)	(µA)	V08(V)	min.	max.	lc(mA)		(Ω)	(×10)		*fae **fap (MHz)	(dB)	(pF)	(ps)	TO-	
BC337	LF	S	N	625	150		45	IA	0.1	20	100	600	100			1		200				P-4	
BC338	LF	S	N		150		25	IA	0.1	20	100	600	100					200				P-4	
BC547	LF	s	N	30	150		45	200	5	20				125				300	10KHZ 1.4			P-4	
BC548	LF	S	N	300	150		20	200	5	20				125				300	10KHZ			P-4	
BC549	LF	S	N	300	150		20	200	5	20				240		—		300	IOKHZ I.4			P-4	
BC55 7	LF	S	Р	300	150		45	200	I n A	20				75				150	IOKHZ			P-4	
BC558	LF	S	Р	300	150		20	200	InA	20				75				150	10KHZ 1.2			P-4	
BC559	LF	S	Р	300	150		20	200	I,n A	20				125				150	10KHZ 1.2			P-4	
BCW46	LF	S	N	200	150	80	60	200	10	80			_	125				300	I XHZ			P-5	
BCW47	LF	S	N	200	150	50	45	200	10	50				125		†		300	1 KHZ			P-5	
BCW48	LF	S	N	200	150	30	20	200	10	30				125				300	1 KHZ 1.4			P-5	
BC W49	LF	S	N	200	150	30	20	200	10	30				240				300	I KHZ			P-5	
BCW56	LF		Р	200	150	80	60	200	10	80				125				150	1 KHZ 1.2			P-5	
BCW57	LF	S	Р	200	150	50	45	200	10	50	t			125				150	I KHZ			P-5	
BCW58	LF	S	P	200	150	30	20	200	10	30	Ι-		-	125			T	150	I KHZ			P-5	
BCW59	LF	S	Р	200	150	30	20	200	10	30				125				150	I KMZ			P5	
BCY10	LF	S	Р	415	150	32	32	250	20 n A	6	24		30	40				1.5	7			P-6	
BCYII	LF	S	Р	415	150	60	60	250	20 n A	6	24		30	40				1.5	7			P-6	
BCY12	LF	S	Р	415	150	32	32	250	20 n A	6	40		30	40				2	7			P-6	
BCY30	LF	S	P	250	150	64	50	100	InA	6	10	35	20	25	ļ			1.2				5	
BCY31	LF	S	Р	250	150	64	50	100	I nA	6	15	60	20	35				1.7				5	
BCY32	LF	s	Р	250	150	64	50	100	I nA	6	20	70	20	55				2.5				5	
BCY33	LF	S	Р	250	150	32	25	100	I nA	6	10	35	20	25				1.5				5	
.BCY34	LF	S	Р	250	150	32	25	100	l n A	6	15	60	20	35				2.4				5	_
BCY38	LF	S	Р	410	150	32	24	500	InA	6	10	30	150					1.5				5	
BCY39	LF	S	Р	410	150	64	60	500	I nA	6	10	50	150					1.5				5	_
BCY40	LF	S	Р	410	150	32	24	500	InA	6	15	120	150					2.5				5 ·	
BCY54	LF	s	Р	410	150	50	50	500	l n A	6	12	70	150					2				5	
BCY55	٠.																						DUAL
BCY56	LF	S	N	300	175	45	45	100	0.1	20	100	450	2	250	3.5K	1.75	1.75	85	10KHZ 1.5			18	
BCY57	LF	S	N	300	175	25	20	100	0.1	20	200	800	2	500	7.5	3.5	35	100	IOKHZ I.S			18	
BCY58	LF	S	N	I W	200	32		200			120	630	2					280	I KHZ 2			18	
BCY59	LF	S	N	ı w	200	45		200			120	630	2					280	1 KHZ 2			18	
BCY70	LF	S	Р	350	200	50	40	200	10 nA	40	50		10					250	IOKHZ 2			18	
BCY71	LF	S	Р	350	200	45	45	200	50 n A	40	100		10	100	2 K	20	10	200	HOKHZ 2			18	
BCY72	LF	S	Р	350	200	25	25	200	50 n A	20	50		10					200	10KHZ 2			18	
BCY87																							DUAL
BCY88										-													DUAL
BCY89																							DUAL
BCZ10	LF	S	Р	250	150	25	25	50	i n A	10				20								P-6	
BCZII	LF	S	Р	250	150	25	25	50	l n A	10				35								P-6	
BCZ12	LF	S	Р	250	150	60	60	50	IOn A	01				15					- 1			P-6	
BD I IS	Р	\$	N	6 W		245	180	200	550	200	60		50					145				39	
BD 31	Ρ.	S	N	ПW	125	70	45	3 A	5	50	20		2 A					60				126	
BD 132	Р	S	P	HW	125	45	45	3 A	5	40	20		2 A			П		60				126	
BD133	P	Ş	N	HW	125	90	60	3 A	5	60	20		2 A			П		60				126	
BD135	Р	S	N	8 W	150	45	45	ΙA	0.1		40	250	150			П		250				126	
BD136	Р	S	Р	8 W	150	45	45	1 A	0.1	30	40	250	150			П		75	$\neg \uparrow$			126	
BD137	Р	S	N	8 W	150	60	60	ΙA	0.1	30	40	160	150					250				126	
BD138	Р	S	Р	8 W	150	60	60	ΙA	0.1	30	40	160	150					75				126	
BD139	Р	S	N	8 W	150	100	80	ΙA	0.1	30	40	160	150					250		\neg		126	
BD140	Р	S	Р	8 W	150	100	80	ΙA	0.1	30	40	160	150					75				126	
BD181	Р	S	N	117W	200	45	55	10A	2	45	20	70	3 A			П						3	
BD182	Р	S	N	117W	200	60	70	15A	5	60	20	70	4 A			П						3	
BD183	Р	S	N	117W	200	80	85	15A	5	80	20	70	3 A			П							

TYPE		,	,		,	,			,	
B6328	TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
B6328	BC337	2SC 495		-		250 1407			-	+
BC548 25C 734			_			_		_		
B6548 25C 734 25C 620 25C 725 25C 1364 B6549 25C 724 25C 620 25C 725 25C 1364 B6557 25A 561 25A 718 25A 553 B6580 25A 561 25A 718 25A 553 B6580 25A 561 25A 718 25A 553 B6581 25A 561 25A 718 25A 553 B6582 25A 661 25A 718 25A 553 B6583 25A 661 25A 718 25C 565A 25C 520 B6684 25C 108A 25C 656 25C 656 25C 656 25C 656 B6684 25C 656 25C 1216 25C 619 25C 1372 B6684 25C 356 25C 1216 25C 619 25C 1372 B6684 25C 356 25C 1216 25C 619 25C 1372 B6684 25C 356 25C 1216 25C 619 25C 1372 B6685 25A 535 25A 532 B6797 25A 539 25A 696 25A 555 25A 532 B6798 25A 539 25A 696 25A 555 25A 532 B6799 25A 539 25A 696 25A 555 25A 532 B6791 25B 461 25B 108A 25B 108A B6712 25B 461 25B 108A 25B 108A B6734 25B 108A 25B 108A 25B 108A B6742 25B 108A 25B 108A 25B 108A B6743 25B 108A 25B 108A 25C 1383 B6745 25C 486 25C 708 25C 2971 B6747 25A 561 25A 718 25C 1099 B6748 25C 486 25C 1099 25C 1373 25C 486 B6747 25A 561 25A 718 25C 1099 25C 1373 25C 1380				-	2SC 620	2301407	2 SC 725	2SC 1364		
B6558					-				_	
B0557 25A561 25A718		$\overline{}$						_		+
B6558			2SA 718							
BC559						-		-		
BCW46						_				
BCW47 2SC 495 2SC 815 2SC 773 2SC 456 2SC 1372 2SC 138 2SC 1372 2SC 138 2SC 1372 2SC 138 2SC 1372 2SC 138 2SC 1372						2SC 563A				
BCW48			2SC 815		2SC 773				250423	
BCW49		2 S C 356				200.00	2SC 1372		250420	+
BCW56										_
BCW57									2 S A 532	
BCW58			2SA 539		2SA 696					
BCW59			2 S A 539							
BCY10 2SB 461 2SB 108A										1
BCY11		2SB 461				_	2011 000		20A 33E	
BCY30			2SB 108A							
BCY31	BCY12	2SB 461								
BCY31			_		2SB 455	_				
BCY32										
BCY34									-	-
BCY38										-
BCY38										
BCY49			2SB 105	-						
BCY40										
BCY54						_	2SB 7A			-
BCY55 CSC 1380 CSC 1345 CSC 1313 CSC 1264 CSC 1380 CSC 1345 CSC 1313 CSC 1264 CSC 1380 CSC 1380 CSC 1380 CSC 1380 CSC 1380 CSC 1380 CSC 1380 CSC 1380 CSC 1380 CSC 1380 CSC 1380 CSC 1380 CSC 1380 CSC 1381 CSC 1380 CSC 1381 C			2SB 108A							
BCY56										
BCY57		2SC 1380		2SC 1345	2SC 3 3					-
BCY58 25C 486 25C 708 25C 971	BCY57						2SC 1264			
BCY59		2SC 486		2SC 708						
BCY70	BCY59	2SC 486								
BCY72 BCY87 BCY88 BCY88 BCY89 BCZ10 III III III III III III III	BCY70	2SA 561	2SA 718							
BCY87 BCY88 BCY89 BCZ10	BCY71	2SA 561	2SA 718							
BCY88 BCY89 BCZ10 BCZ10 BD111 BD115 BD131 BD132 BD132 BD133 BD135 BD135 BD136 BD137 BD138 BD136 BD137 BD138 BD137 BD138 BD138 BD138 BD139 BD139 BD139 BD130 BD131 BD138 BD138 BD139 BD139 BD130 BD131 BD138 BD138 BD139 BD139 BD130 BD131 BD138 BD138 BD139 BD130 BD131 BD131 BD132 BD133 BD135 BD136 BD137 BD138 BD138 BD138 BD139 BD140 BD181	BCY72	2SA 561	2SA 718							
BCY89 BCZ10	BCY87									-
BCZ10 .11 .12 .12 .13 .14 .15 .17 .17 .18 .19 .19 .19 .19 .19 .19 .19	BCY88									
Second Second	BCY89									
12	BCZ10					2SB 278				
BD 15 BD 13 2SC 1237 2SC 1306 BD 132 BD 132 BD 133 2SC 1237 2SC 799 BD 135 BD 135 BD 136 BD 137 BD 138 BD 138 BD 139 BD 130 BD	_11					2SB 278				
BD 3 2 2 2 2 2 2 2 2 2	12					2SB 281				
BD132	BD115			2SC 1059						
BD133	BD131	2SC 1237	2SC 1306							
BD133	BD 132				2SB 529				2SB 511	
BD136 2SB 243 2SB 493 2SB 494		2SC 1237	2SC 799					-		
BD136 2SB 243 2SB 493 2SB 494	BD135				2SC 1155					
BD137	BD136		2SB 243			2SB 493			2SB 474	
BD139 2SC 1157 2SB 456 BD140 2SB 456 2SD 111 BD181 2SD 111 2SD 151 2SD 172 BD182 2SD 111 2SD 151 2SD 341 2SD 250 2SD 340	BDI37				2SC 1155					
BD140 2SB 456 BD181 2SD 111 2SD 151 2SD 172 BD182 2SD 111 2SD 151 2SD 341 2SD 250 2\$D 340 BD182 2SD 340 BD18	BD138		2SB 245	_			2 SB 456			
BD181 2SD 11 2SD 151 2SD 341 2SD 2SD 340 2SD 340 3	BD139				2SC 1157					
BD182 2SD 111 2SD 151 2SD 341 2SD 250 2SD 340	BD140						2 SB 456			
200 100 200 200 100	BD181	2SD	2SD 51				2SD 172			
	BD182	2SD 111	2SD 5	2SD 341			2SD 250	2 ŞD 340		
2SD 250 111 2SD 151 2SD 341 2SD 250 2SD 340	BD183	2SD	2SD 151	2SD 341			2 S D 250	2SD 340		

		١	>	MA	XIMUM	RAT	INGS						ELE	CTRICAL	CHAR	ACTERI	STICS					OUTLINE	
TYPE	USE	MATERIA	POLALITY	Pc 25°C	Tj	Vos	Vago	Ic	lo			hεε		hfe	hie	hre	hoe	f1 *fae **fa0	NF	Cob	Coxrbb'	TO-	NOTE
		_	_	(mW)	(7)	(V)	(V)	(mA)	(μA)	AOS(A)	min.	max.	Ic(mA)		(Q)	(×10)	(μ ₀)	(MHz)	(dB)	(pF)	(ps)		
BD201	Р	S	N	60 W	150	60	45	8A	1	40	30		3 A		<u></u>			3			_	P-7	
BD202	P	S	P	60 W	150	60	45	8A	- 1	40	30		3 A					3				P-7	
BD203	P	S	N	60 W	150	60	60	8A		40	30		2 A					3				P-7	
BD204	P	S	P	60 W	150	60	60	8A	1	40	30		2 A			-		3		_	_		
BD226	Р	S	N	12.5W	150	45	45	11.5A	0.1	30	25		I A					125				126	
BD227	P	S	Р	125W	150	45	45	1.5A	0.1	30	25		I A		<u> </u>			50				126	
BD228	P	S	N	12.5W	150	60	60	1.5A	0.1	30	25		I A			-		125				126	
BD229	Р	S	Р	12.5W	150	60	60	1.5A	0.1	30	25		I A			-		50		-	-	126	
BD230	P	S	N	12.5W	150	100	80	1.5A	0.1	30	25		I A			-		125				126	
BD231	Р	S	P	12.5W	150	100	80	1.5A	0.1	30	25		1 A			 		50		_		126	
BD232	P	S	N	7 W	125		300	250		1	20	L	150			-		20				126	
BD233	P	S	N	25 W	150	45	45	2A	0.1	45	20		IA			-		3				126	
BD234	P	S	P	25 W	150	45	45	2A	0.1	45	20		I A	_				3			_	126	
BD235	P	S	N	25 W	150	60	60	2A	0.1	60	20		1A			_		3			_	126	
BD236	Р	S	P	25 W	150	60	60	2A	0.1	60	20		, IA			_		3			-	126	
BD237	Р	S	N	25 W	150	100	80	2 A	0.1	100	20		IA	ļ	<u> </u>	-	_	3				126	
BD238	Р	S	P	25 W	150	100	80	2 A	0.1	100	20	_	IA			<u> </u>	-	3		_	_	126	
BD433	P	S	N	36 W	150	22	22	4 A	0.1	22	50		2 A		<u> </u>	1		3		<u> </u>		126	
BD434	P	S	P	36 W	150	22	22	4 A	0.1	22	50		2 A	L		1		3				126	
BD435	P	S	N	36 W	150	32	32	4 A	0.1	32	50		2 A			_		3			_	126	
BD436	P	S	P	36 W	150	32	32	4 A	0.1	32	50		2 A			100		3				126	
BD437	P	S	N	36 W	150	45	45	4 A	0.1	45	40		2 A					3				126	
BD438	P	S	Р	36 W	150	45	45	4 A	0.1	45	40		2 A					3			ļ	126	
BDY20	P	S	N	115W	200	100	60	15A	3	100	20	70	4 A	_				-			ļ	3	
BDY38	P	S	N	115W	200	50	40	6A	3	50	30		2 A					1				3	
BDY60	P	S		15W	175	120	60	5 A	10	100	45		500			-		100			-	3	
BDY61	Р	S		15W	175	100	60	5 A	10	80	45		500			-		100				3	
BDY90	Р	S		40W		120	100	10A			30	120	5 A			-		70				3	
BDY91	Р	S	+	40W		100	80	I0A			30	120	5 A			₩		70				3	
BDY92	Р	S	-	40 W		80	60n	IOA			30	120	5 A			┷		70				3	
BDY93	Р	S	N	30 W		750	350	3 A			15	60	I A		-	-		8				3	
BDY94	Р	S	N	30 W		750	300	3 A		-	25	80	IA		ļ	+-		8			<u> </u>	3	
BDY95	P	S	N	30 W		600	250	3 A		_	25	80	I A			-		- 8		-	<u> </u>	3	
BDY96	Р	S	N	40W	L	750	350	10A		_	15	60	2 A			ـ	-	10			-	3	
BDY97	Р	S	N	40 W		750	300	10 A		<u> </u>	25	80	2 A		-	-		10		-		3	
BDY98	Р	S	N	40W		600	250	10 A			25	80	2 A			╄	ļ	10	100 MHZ			3	
BF115	HF	S	+-	145	175	50	30	30			45	165	1	-		┝-		230	35 MHZ			72	
BF167	HF	S	N	130	175	40	30	25		-		_			-	₩-	-	350	3	-		72	
BF173	HF	S	-	260	175	40	25	25	_	ـــ	L .			_	ļ	-	<u> </u>	550			-	72	
BF177	HF	S	N	600	200	100	60	50	ļ	_	20		15	-	<u> </u>	_		120				39	
BF178	HF	S		600	200	185	115	50		_	20		30	_		\vdash		120	<u> </u>	-	-	39	
BF179	HF	S	-	600	200	250		+			20		20		-	_	-	120	200 MH7	5	2.5	39	
BF180	HF	S	-	150	175	30	20	20		_			<u> </u>	<u> </u>	-			675	200 MHZ 2.5 900 MHZ		<u> </u>	72	
BF181	HF	S	_	150	175	30	20	20	ļ	ļ	<u> </u>			<u> </u>		+	<u> </u>	600	.6.8		-	72	
BF182	HF	S	-	150	175	25	20	15		-	L-			 	-	+		650	806 MHZ 7:4		-	72	
BF183	HF	S		150	175	25	20				_		-	-	-	 		800				72	
BF 184	HF	S	+	145	175	30	20	30			115		1	—	-	1		300	100 MHZ	_	-	72	
BF 185	HF	S	_	145	175	30	20	-			67	ļ	1	-	-			220	- 11	<u> </u>	-	72	
BF 194	HF	S	_	250	125	30	20	30			115		1	_	_	+-		260	1 MHZ 4 100 MHZ		-	P-2	
BF 195	HF	S	-	250	125	30	20	30		-	67	<u> </u>	1	<u> </u>	-	_	<u> </u>	200	4	-	<u> </u>	P-2	
BF 196	HF	S	-	250	_	40	30	25			L				-	1	Ļ	400	35 MHZ 3	<u> </u>	_	P-2	
BF 197	HF	S		250	125	40	25	25		L.	$oxed{}$			<u> </u>	_	_	ļ	550	25 1411-		_	P-2	
BF198	HF	S	-		150	40	30	25		<u> </u>	\vdash		<u> </u>			_	-	400	35 M HZ 3		<u></u>	P-4	
BF199	HF	S	_	500	150	40	25	25							<u> </u>	1		550			<u> </u>	P-4	
BF 200	HF	S	Р	150	175	30	20	20										650	200 MHZ 2, 7			72	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
BD201	2SC 080	2SD 217					2SD 338		
BD202	2SB 531	2002					2SB 518		
BD203		2SD217					2SD 338		
BD204	2 SB 53						2SB 518		
BD226		2SC 1425							
BD227					2 SB 126	2SB 445			
BD228	2SC 790		2SC1061		2SC 1398				
BD229						2SB 446			
BD230					2SC 697		2SC756-2		
BD231		2 S B 24 I A							
BD232				2SC 1088					
BD233		2 S D 288	2		2SD 317		2SD291	2SD330	
BD234		2 SB 250 A	2SB 471			2SB 151		2SB 216	
BD235	2SC 793	2SD 335			2SD 317		2SD291	2SD 314	
BD236		2SB 250 A	2SB 471		-	2SB 151		2SB 215	
BD237	2SC 793	2 S D 335							1
BD238		2 SB 253 A			2SB 128 A	2 SB 151		2SB 215	
BD433	2 SC 789				2SD 226 A	000:-:		2SD 315	
BD434		2 SB 248			2SB 28A	2SB 5	2SB 518	2SB 509	
BD435					2SD 226 A			2SD 315	
BD436		2SB 248			2SB 28A	2SB 151	2SB 518	2SB 509	
. BD437					2SD 226 A	000	200 510	2SD 315	-
BD438		2SB248A			2SB 28A	2SB 151	2 S B 5 I 8	2SB 509	
BDY20						200 :==	2SD 340	_	
BDY38	2SD 111				-00.00	2SD 172			-
BDY60	2SC 793		2SC 665		2SC 901				-
BDY61			2SC 664	2SC 769				-	
BDY90	2SC 558								
BDY91	2SC 558			2SC 769 2SC 769					
BDY92	2 S C 558	000 1050	2001412	2SC 189 2SC 1309				-	
BDY93 BDY94	2SC 1172 2SC 1172	2 SC 1358 2 SC 1358	2SC 1413 2SC 1413	2SC 1309					
BDY95	2SC 1172	2SC 1358	2SC 1413	2SC 1309					
BDY96	2SC 1172 2SC 1434	230 1336	230 1413	230 1303			 		
BDY97	2SC 1434				1	=			
BDY98	2SC 1434								
BFII5	2SC 372	2SC 428	2SC 461						
BF167	2SC 372	2SC 428	2SC 461						
BF173	200 372	2SC 1319	230 401			2SC 722			-
BF177	2SC 995	230 1313	2SC 154C				2SC 1127		
BF178	2SC 995		2SC 154C				2SC 1127		- 1
BF 179		2SC 1103				2SC 627			
BF 180		2SC 1158							
BF 181	·	2SC 58							
BF 182		2SC 1158		-					
BF 183		2SC 1158			1				
BF 184	2SC 392	2 SC 253	2SC 717			2SC 067			
BF185	2 SC 392	2 S C 253	2SC 717	_		2SC 1067			
BF 194		2SC 1320				2SC 722			
BF 195		2SC 320		_		2SC 722			
BF196		2SC 320				2SC 722			
BF 197		2SC 1320				2SC 722			
BF198			2SC 151H				2 SC 352		
BF 199			2SC 151H				2SC 352		
BF200		2SC 1158							

				MA	XIMUM	RAT	TINGS		_				ELE	CTRICAL	CHARA	CTERIS	TICS	_					
TYPE		RIAL	É	Pc	Tj	Vos		lc	la			hee		hfe				fτ		Cob	Co×rbb'	OUTLINE	NOTE
TTPE	USE	MATERI	POLALITY	25°C (mW)	(2)	Vos (V)	V ₀₈₀	(mA)		V _{OB} (V)	min.		Ic(mA)	nte	hie (Q)	hre (×10)	hoe (μδ)	*fae **fao (MHz)	NF (dB)	(pF)	(ps)	TO-	NOTE
BF240	HF	S	N	250	125	40	40	25										380	200 KHZ 3.5		_	P-4	
BF241	HF	S	N	250	125	40	40	25					-					350	200 KHZ 3.5			P-4	
BF254	HF	S	N	300	125	30	20	30			15							260	3.5 100 MHZ			P-4	
BF255	HF	S	N		125	30	20	30			67							200	100 HZ			P-4	
	HF	S	-	300	175	160	160	_	A	100	25		30					90	-1			39	
BF257		-	N	5 W				200	InA	200	_		30					90			-	- 39	
BF 258	HF	S	N	5 W	175	250	250	200	I n A	250	25							90				39	
BF 259		S	N P	5 W	150	300	300		_	30	25		30					500	100 MHZ 3		-	P-4	
BF324	HF	S		250		30		25 200	0.05	30	20	<u> </u>	20					130	3		30	39	
BF336	HF	S	N	3 W	200	185 250	180	200		_	20		30					130			30	39	
BF337	HF	S	N		200		200				_		_								_	-	
BF338	HF	S	N	3 W	200	300 40	225	200		-	20		30					130 325	100 MHZ		30	39 P-4	
BF450	HF	S	P P	250	150		40	25			<u> </u>	<u> </u>						325	2 100 MHZ		-	P-4	
BF451	-	S	-	250	150	40		25	FO - 4		-								2			-	
BF457	HF	S	N	6 W	150	160	160	300	50 n A	100	26		30					90		4.5		126	
BF 458	HF	S	N	6 W	150	250	250	300	50 n A	200	26		30	L		Н		90		4.5	-	126	
BF459	HF	S	N	6 W	150	300	300	300	50 n A	250	26		30			Ш		90	100 MHZ	4.5	-	126	
BF494	HF	S	N	300	150	30	20	30			115		10					260	100 MHZ			P-4	
BF495	HF	S	Ν	300	150	30	20	30			67	L	10					200	4			P-4	
BFR63	HF	S	N	3.5W	150	40	25	500	10	20	25		150					1000			-	P-8	
BFR64	HF	S	N	3.5W	150	40	25	500	10	20	25		150					1200			-	P-8	
BFR65	HF	S.	N	5 W	200	40	25	400	100	20	20		400					1000	COO LEU?		-	P-8	
BFR90	HF	S	N	180	150	20	15	25	50 n A	10	25		14					5000	500 MHZ 2.4		_	P-9	
BFR91	HF	S	N	180	150	15	12	35	50 n A	5	25	<u></u>	30					5000	500 MHZ 1.9		<u> </u>	P-9	
BFS92	HF	S	Р	5 W	200	100	60	I A	50 n A	80	30		150	100	300	7000	60	70			-	39	
BFS93	HF	S	Р	5 W	200	100	60	IA,	50 n A	80	70	ļ	150	100	300	7000	60	70			-	39	
BFS94	HF	S	Р	5 W	200	80	40	1 A	50 n A	60	40		150	100	300	7000	60	70			-	39	
BFS95	HF	S	Р	5 W	200	45	35	I A	50 n A	30	70		150	100	300	7000	60	70				39	
BFW16A	HF	S	N	1.5W	200	40	25	300	20	20	25	L	150					1200	200 MHZ 6			39	
BFW17A	HF	S	N	1.5W	200	40	25	300	20	20	25		150					11:00			_	39	
BFW30	HF	S	N	250	200	20	10	100	50 n A	10	25		50					1600	500 MHZ 5			72	
BFW45	Defl	S	N	2.5W	200	165	130	100	0.1	100	20	120	50			L		120	<u> </u>		<u> </u>	39	
BFW92	HF	S	N	190	150	25	15	50	50 n A	10	20	150	2					1600	500 MHZ 5		_	P-9	
BFW93	HF	S	N	190	150	18	10	100	50 n A	10	25		50					1700	500 MH2 5		L .	P-9	
BFX34	S₩	S	N	5 W	200	120	60	2 A			40	50	2 A					100				39	
BFX44	HF	S	N	360	200	40	23	250	0.1	20	40	120	10					300				18	
BFX89	HF	S	N	200	200	30	15	50	10 n A	15	20	125	25					1200	800 MHZ 7			72	
BFY50	HF	S	N	5 W	200	80	35	ΙA	2 n A	60	112		150	90	750	5	80	140				39	
BFY51	HF	S	Ν	5W	200	60	30	ΙĄ	2 n A	40	123		150	100	750	5	80	160				39	
BFY52	HF	S	N	5 W	200	40	20	ΙA	2 n A	30	142		150	110	750	5	80	185			<u> </u>	39	
BFY55	HF	S	N	800	200	80	35	ΙA	10 n A	60	40	120	150					60				39	
BFY90	HF	S	N	200	200	30	15	25			20	125	25		- 2			i 400	800 MHZ 5.5	<u> </u>	_	72	
BSS27	SW	S	N	800	200	70	45	ΙA			30		150					400				39	
BSS28	SW	S	N	800	200	50	30	ΙA			40		150					400				39	
BSS29	SW	S	N	800	200	50	30	1 A			25		150					400				39	
BSS40	SW	S	N	360	200	60	40	ΙA			25		500					200				18	
BSS41	SW	S	N	360	200	60	30	ΙA			25		500					200				18	
BSV15	S₩	S	Р	800	200		40	ΙA			40	250	100	20				50				39	
BSV16	SW	S	Р	800	200		60	ΙA			40	250	100	20				50				39	
BSV 17	SW	S	Р	800	200		80	ΙA			40	160	100	20				50				39	
BSV64	SW	S	N	5 W	175	100	60	5 A	10	60	40		2 A					100				39	
BSV68	SW	S	Р	250	150	110	100	100	5	100	30		25					95				18	
BSV86	SW	S	N	220	150	75	30	400	0.1	60	100	300	150					100				P-5	
BSV87	SW	S	N	220	150	75	30	400	0.1	60	40	120	150					100				P-5	
BSV88	SW	S	N	220	150	60	25	400	0.1	30	35		150	1				100				P-5	
			Р																		-		

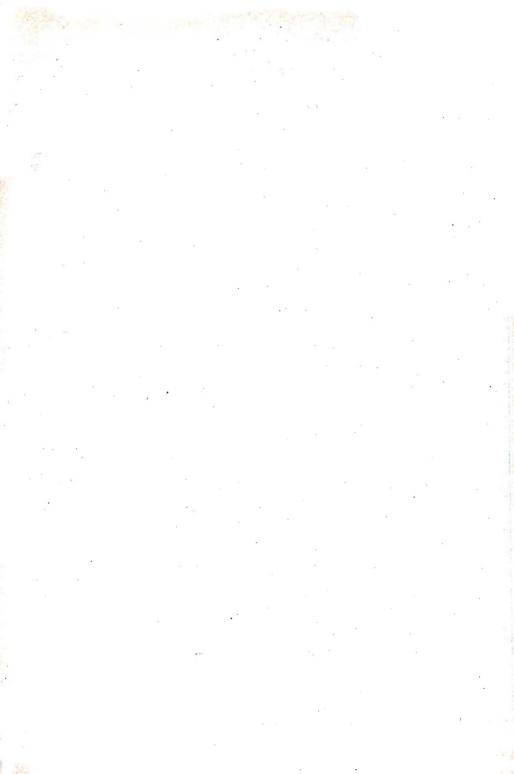
TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
BF240		2 SC 320	İ						
BF241		2SC1320		-					
BF254		2 S C 1320							
BF 255		2 SC 1320							
BF257		2SC 1456	2 SC 1304						
BF258		2SC1456	2SC1304						
BF 259		2SC 1456	2SC1304		10				
BF324	2SA494	2SA 750					2SA 678		
BF336			2SC 685		2SC 582				
BF337			2SC685		2SC582				
BF338			2SC685		2 S C 5 8 2				
BF450	2 S A 494						2SA 678		
BF451	2 S A 494					_	2SA 678		
BF457									
BF458									
BF459		L. P. L.							
BF494		2SC1320				2 SC 722			
BF495		2SC1320				2 SC 722			
BFR63						2SC 1484			
BFR64						2SC1484			
BFR65		_				2SC1484			
BFR90	2SCI193	2 SC 268				2SC1421			
BFR91	2SC1193	2SC1268				2SC1421			
BFS92						_	2SA 761		
BFS93							2SA 761		
BFS94			•				2SA 761		
BFS95							2SA 761		
BFW16A		2 SC 249				2SC1262			
BFW17A		2 SC 249				2SCI262			
BFW30	2S C 1164	2SC 852				2SC 1068			
BFW45					2SCI012		1		
BFW92		2 SC 1424						_	
BFW93		2SC1424				_			
BFX34					2SC697A		2 SC 756	2SC931	
BFX44	2SC498	2SC 729		2 S C 306	2 SC 456	2SC202			
BFX89		2SC1424				-			
BFY50				2SC1224		100			
BFY51				2SC1224		1	-		
BFY52				2SC1224			-		
BFY55	2 SC 1381	-	2SC1212A		_				
BFY90		2SC1424							
BSS27	2SC1381		2SC1212A						
BSS28	2SC1381		2SC1212A						
BSS29	2SC1381		2SC1212A						
BSS40	2SC 497		-71		2SC1384		-		
BSS41	2SC 497		+		2SC 384			- 2	
BSV 15	2SA 484						2SA 762		
BSV16	2SA 484						2SA762		
BSV 17	2SA 484						2 S A 762		
BSV64	2SC 981								-
BSV 68	200 301	2SA 675	2SA 549 A		+	-			
BSV 86	2SC 497	20,010	20/13437	2SC 309		- 2S C827		-	-
BSV87	2SC 497			2SC 309		2S C827			
BSV88	2SC 497			2 S C 309		2S C827			
BSV96	200401	2SA 642	2SA 673	20000		2SA555			

	1				XIMUM	RAT	TINGS						FLE	CTRICAL	CHARA	CTERIS	STICS			_			_
TYPE	USE	RIAL	Ě	Pc	Ti	Voa		łc	la	n		hfE		hfe	hie	hre	hoe	fτ	NF	Cob	Coxitob	OUTLINE	NOTE
1112	USE	MATERIAL	POLALITY	25°C (mW)	(7)	(V)	¥œ (∀)	(mA)		Vos(V)	min.	max.	ic(mA)	1110	(Q)	(×10 [†])	(σ _μ)	*fae **fap (MHz)	(dB)	(pF)	(ps)	то.	NOTE
BSV97	SW	S	Р	220	150	80	30	300	0.1	20	40	120	150					75				P-5	
BSV98	SW	S	Р	220	150	30	30	300	0.1	20	30		150					75				P-5	
BSW41	SW	S	N	I W	200	40	25	500	0.5	30	15		500					250				18	
BSW66	SW	S	N	5W	200	100	100	ΙA	100	100	30		500					80				39	
BSW67	SW	S	N	5W	200	120	120	ΙA	100	120	30		500					80				39	
BSW68	S₩	s	Ν	5 W	200	150	150	I A	100	150	30		500					80			•	39	
BSW69	SW	s	N	125	125	150	150	50	0.1	100	30		4					130				P-5	
BSX12	SW	S	Ν	3 W	200	25	12	ΙA	IO nA	25	30	120	300					620				39	
BSX12A	sw	S	Ν	3 W	200	25	15	ΙA	10 n A	25	30	120	300					620				39	_
BSX19	SW	s	Ν	360	200	40	15	500	0.4	20	20	60	10					400				18	
BSX20	SW	S	N	360	200	40	15	500	0.4	20	40	120	10					500				18	
BSX2I	SW	S	N	300	175	120	80	100	1 n A	90	80		4					60				18	
BSX59	SW	S	N	800	200	70	45	ΙA	0.5	40	30		500					450				39	
BSX60	SW	S	N	800	200	70	30	ΙA	0.5	40	30		500					475				39	
BSX6I	SW	s	N	800	200	70	45	-IA	0.5	40	30		500					475				39	
BSY38	SW	S	N	300	175	20	15	100	0.1	20	30	60	10					350				18	
BSY39	SW	S	N	300	175	20	15	100	0.1	20	40	120	10					350				18	
BU105	Defi	-	N	10W	115	1500	1500	2.5A								\Box		7.5		<u>L</u> .		3	-
BU108	Defl	S	N	12.5W	115	1500	1500	5 A										7				3	
BU126	Defi	S	N	30 W	125		300	3 A			15	60	ΙA					8				3	
BU132	Defi	S	N	15W	135		600	ΙA			25	80	250					8				3	
BU133	Р	S	N	30 W	125		250	3 A			15	80	ΙA					8				3	
B U204	Def	S	N	10W	115		600	2.5A			2	•	2 A					7.5				3	
BU205	Defi	S	N	10 W	115		700	2.5A			2		2 A					7.5				3	
BU206	Defi	S	N	10W	115		800	2.5A			1.8		2 A					7.5				3	
BU207	Defi	S	N	12.5W	115		600	5 A			2.25		4.5A					7				3	
B U208	Defl	S	N	12.5 W	115		700	5 A			2 .25		4.5A					7				3	
BU209	Defl	S	N	12.5W	115		800	4 A			2.25		3 A					7				3	
																						\perp	
		_																					
		L																L.					
																					ļ		
2 N 706 A	SW	S	N	300	175	25	15	500	0.5	15	20	60 -	10					200			ļ	18	
2 N 7 0 8	SW	S	N	360	200	40	15	500	25 n A		30	120	10					300				18	
2N743	SW	S	N	300	175	20	12	200	-1	20	20	60	10		L	_		300				18	
2N744	SW	S	N	300	175	20	12	200	1	20	40	120	10	L		1_		300				18	
2N753	SW	S	N	300	175	25	15	50	0.5	15	40	120	[~] 10			_		200				18	
2N914	SW	S	N	360	200	40	15	500	25 n A	20	30	120	10		-	_		300		ļ	_	18	
2N918	HF	S	N	200	200	30	15	50	10 nA	15								900	60MHZ 6			72	
2N929	LF	S	N	300	175	45	45	30	10 nA	45	100	350	10	200	5 K	2.5	14	80				18	
2N930	LF	-	N	300	175	45	45	30	10nA	45	150	600	10	350	10 K	5.5	25	80		ļ	_	18	
2N1302	SW	-	N	150	85	25	25	200	3	25	20		10					10	- 3	_		5	
2N1303	SW	G	Ρ	150	85	30	25	300	3	25 -	20		10					5				5	
2N1304	SW	+	N	150	85	25	20	200	3	25	40	100	10					15				5	
2N1305	SW	G	Р	150	85	30	20	300	3	25	40	100	10					10			- 1	5	
2N1306	SW	G	N	150	85	25	15	200	3	25	60	200	10			1		20				5	
2N1307	SW	G	Р	150	85	30	15	300	3	25	60	200	10					15			<u> </u>	5	
2N1308	SW	G	N	150	85	25	15	200	3	25	80	300	10					30				5	
2N1309	SW	G	Р	150	85	30	15	300	3	25	80	300	10					20				5	
2N1613	HF	S	N	800	2Q0	75	50	I A	10 nA	60	40	120	150					60	I XHZ I2			39	
2N1711	HF	S	N.	800	200	75	50	I A	10 nA	60	60	300	150					70	I KEZ 8			39	
2N1893	НF	+	N	3 W	200	120	100	500	10nA	90	40	120	150									5	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
BSV97									1
BSV98		2SA 642		2SA 695		2 S A 555			
BSW41		2SC 890		2SC 1016					
BSW66				2 SC 1224					
BSW67				2 SC 1224					
BSW68				2SC 1224					
BSW69		2SC 1278	2SC 857K						
BSX12				2SC 1224					
BSX12A			_	2SC 1224					
BSX19	2SC 497			2SC 1211	2SC 1384				
BSX20	2SC 497			2SC 1211	2 SC 1384				
BSX2I						2SC 826			
BSX59	2 SC 1381		2SC 1212A						
BSX60	2SC 38		2SC 1212A						
BSX6I	2 SC 38 I		2SC 1212A						
BSY38	2SC 400	2SC 943	2SC 1373			2SC 204			1
BSY39	2SC 400	2SC 943	2SC 1373			2 SC 204		_	1 -
BU105		2SC 1358			2 SD 299		/		1
BU108		2SC 1358			2SD 299				
BU126					2 SD 380				
BU132					2SD246			,	
BU133	2 SC 792	2SC 1106	2 SC 935			2 SC 825			1
BU204					2 SD 299				
B U205					2 SD 299				
BU206					2 SD 299	-			
BU207			-		2SD299				
BU208					2SD 299				
BU209					2 SD 299				
					_				
-									
,									1
								_	
2N706A	2SC 503		2SC 1385			2SC1150			
2N708	2 SC 503		2 SC 385			2SC1150			
2N743	2 SC 735			2SC 619			2SC 1363		
2N744	2 SC 735	İ		2SC 619			2SC 1363		
2N753		İ		2SC 1240	4.				
2N914	2SC 503		2SC 1385			-2SC1150			
2N918		2SC 1424				• •	- 0		1
2N929				2SC 1240		2SC 722			+
2N930				2SC 240		2SC 722			
2N1302	2 SC 594	2SC 1216	2SC 321			2SC 565			
2N1303	2SA 562	2\$A 642	2SA 673	2 S A 695			 		
	2SC 594	2SC 1216	2SC 321	2 3	_	2SC 565			1
2N1305	. 2SA 562	2SA 642	2SA 673	2 S A 695					
2N1306	2 SC 594	2SC 1216	2 SC 321			2SC 565			-
2N1307	2 S A 562	2SA 642	2SA 673		-				_
2N1308	2SC 594	207,042	2SC 321			2SC 565			
2,41300	2SA 562	2SA 642	2SA 673	2 S A 695		- 200 303			-
2N1200	2011 302			207.000			-		-
2N1309	2SC 1381		2SC 12124	l					
2N1309 2N1613 2N1711	2SC 381 2SC 381		2SC 1212A 2SC 1212A						

		=	>	MA	XIMUM	RAT	INGS						ELE	CTRICAL	CHARA	CTERIS	TICS	1 4- 1				OUTLINE	
TYPE	USE	MATERIAL	POLALITY	Pc 25°C	jt (°C)	Vos (V)	V 080 (V)	Ic (mA)	Ια: (μΑ)	o Vos(V)	m jn .	hre max.	Ic(mA)	hfe	hie (Ω)	hre (×10)	hoe (μδ)	ft *fae **fau (MHz)	NF (dB)	Cob (pF)	Coxitb' (ps)	10.	NOTE
	_	-	-	(mW)					10nA		35	max.	10				_	250	-			39	
2N2218	SW	S	N	800	175	60	30	800		50	35		-					250				39	
2N2218A	SW	S	N	800	175	75	40	800	10 nA	60			10					250			+	39	
2N2219	SW	S	N	800	175	60	30	800	10 nA	50	75		10					300			+	39	
2N2219A	SW	S	N	800	175	75	40	800	10nA	60	75		10			\vdash		250				18	
2N2221	SW	S	N	500	175	60	30	800	10nA	50	35					Н		-			+	18	
2N2221 A	SW	S	N	500	175	75	40	800	10nA	60	35		10			H		250 250			+	18	
2N2222	SW	S	N	500	175	60	30	800	10 nA	50	75		10					300			-	18	
2N2222A	SW	S	N	500	175	75	40	800	†0nA	60	75		10					60		-	800	39	
2N2297	HF	S	_	800	200	80	35	1A	10nA	60	40	120	150					400			800	18	
2N2368	SW	S	N	360	200	40	15	500	0.4	20	20	60	10		<u> </u>			_			\vdash	18	
2N2369	SW	S	N	360	200	40	15	500	0.4	20	40	120	10			<u> </u>		500		-	-	_	
2N2369 A	SW	S	N	360	200	40	15	500	0.4	20	40	120	10			_		500	2	-	\vdash	81	
2N2483	HF	S	N	360	200	60	60	50	10 n A	45	175			80	1.5K		30	80	3_	_	\vdash	18	
2N2484	HF	S	N	360	200	60	60	50	10 n A	45	250	ļ	1	150	3.5K	8	40	80	3		+	18	
2N2894	SW	s	P	360	200	12	12 -		80 n A	6	40	150	30			_		_		-	+	18	
2N2894 A	SW	S	Р	360	200	12	12	200	50 n A	10	40	120	30			ļ		<u> </u>		├	+-	18	
2N2904	SW	S	Р	600	200	60	40	600	20 n A	50	35		10					200			 	39	_
2N2904 A	SW	S	P	600	200	60	60	600	10 n A	50	40		10					200		_		39	
2N2905	SW	S	P	600	200	60	40	600	20 n A	50	75		10					200				39	
2N2905 A	SW	S	P	600	200	60	60	600	IO n A	50	100		10					200				39	
2N2906	SW	S		400	200	60	40	600	20 n A	50	35		10					200				18	
2N2906 A	-	-	-	400	200	60	60	600	10 nA	50	40		10					200				18	
2N2907	SW	S		400	200	60	40	600	20 n A		75		10					200				18	
2N2907 A	-	-	_	400	200	60	60	600	IOn A		100		10			1		200				18	
2N3055	P	S		115W	200	100	70	15A		T	20	70	4 A	15				0.8				3	
2N3303	SW	_	-		200	25	12	ΙA		T	30	120	300					450				39	
2N3426	SW			3 W	200	25	12	I A			30	120	300					450				39	
2N3442	P	S	+-	-	200	160	140	IOA	50	140	20	70	3 A									3	-
2N3570	HF	-	+:`	117.1		1			<u> </u>			-				*							
2N3571	HF	-	+	_	+	 							T								1		
2N3572	HF	_	+					-	_	+	T					†		7					
2N3771	P	15	N	150W	200	50	40	30 A	2 mA	50	15	60	15 A			+		1.25				3	
2N3771	P	-	-		_	100	60	20 A	5 m A	100	+	60	10A			T	_	1.25			T	3	
2N4036	_	-	_	+	-	90	65	IA	20 n A	-	40	140	-			+-		60				39	
	P	-	-		+	140	_	5 A	50	140	+	70	4 A		+	+						3	İ
2N4347	╀	+	+	100**	200	140	120	J	30	140	1-0	1.0	17.7	†		+-				1			
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TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N2218	2SC1381		2SC 1212	_				2SC 614	+
2N2218A	2SC 1381		2SC 1212						
2N2219	2SC1381		2SC 1212					1	
2N2219 A	2SC1381		2SC 1212						
2N2221	2 SC 38		2SC 1212	_					
2N2221 A	2SC 38		2SC 1212						
2N2222	2SCI38I	· .	2 SC 1212						
2N2222A	2SCI381		2SC 1212						
2N2297	2SCI38I		2SC 1212						
2N2368	2 SC 503	2SC97A				2SC1150			
2N2369	2 S C 503	2SC 97 A				2SC1150			
2N2369 A	2SC 503	2SC 97 A				2SCI150 .			
2N2483				2SC 240					
2N2484	_			2SC 240					
2N2894	2SA 497		2SA 673A	2SA 697					
2N2894A	2SA 497		2SA 673 A	2 S A 697					
2N2904					2SA752				
2N2904A			1		2\$A 752				<u> </u>
2N2905					2SA 752				↓
2N2905 A					2SA752				
2N2906		2 S A 505			2SA731			`	
2N2906 A	<u> </u>	2SA 505			2SA731				
2N2907		2SA 505			2 SA 731				
2N2907 A		2 SA 505			2SA 731				
2N3055							2SD 340		
2N3303				2SC1224		•		2SC 614	
2N3426				2SC1224				2SC 614	<u> </u>
2N3442			2SC1343				2SD 262		
2N3570									
2N3571			-1						
2N3572		_					1	<u>.</u>	
2N3771	2SD [4	000				2SD 250			ļ
2N3772 2N4036	2SD 13	2 SD 132							
						000 177	2SA 761		
2N4347	2SD118		-			2SD 177	_	_	
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Westinghouse

WESTING HOUSE

		J		MA	XIMUM	RAT	INGS						ELE	CTRICAL	. CHAR	ACTERI	STICS				_		
TYPE	USE	ERIA	ALITY	Pc	Tj	Vas	Vœ	lc lc	le	90		hre		hfe	hie	hre	hoe	fr *fat	NF	Cob	Coxitob'	OUTLINE	NOTE
	JUL	MATER	POLALI	25℃ (m₩)	(7)	(V)	(V)	(mA)	(µA)	V _{CB} (Y)	min.	max.	Ic(mA)		(<u>Q</u>)	(×10)	(µ0)	*fae **fab (MHz)	(dB)	(pF)	(ps)	TO-	
2N5038	SHP	S	N	140 W	200	150	90	30 A			20	100	12 A	12								3	
2N5039	SHP	S	N	140W	200	120	75	30 A			20	100	10 A	12								3	
2N5929	SHP	S	N	175W	200	90	80	30A		10	20	100	10 A					30		800		3	
2N5930	SHP	S	N	175 W	200	130	120	30 A		10	20	100	10 A					30		800		3	
2N5931	SHP	S	N	175W	200	170	160	30 A		10	20	100	10 A					30		800		3	
2N5932	SHP	S	N	175 W	200	70	60	30 A			20/12	100/60	20A/30A					30		800		3	
2N5933	SHP	S	N	175W	200	110	100	30 A			20/12	100/60	28A/30A					30		800		3	
2N5934	SHP	S	N	175W	200	150	140	30 A			20/12	100/60	20A/36A					30		800		3	
1743-0610	SHP	S	N	175W	200	70	60	30 A			1/20	49/100	3GA/IDA					30		800		3	
1743-1010	SHP	S	N	175 W	200	110	100	30 A			°/20	4%00	30A/10A					30		800		3	
1743-1410	SHP	S	N	175W	200	150	140	30 A			³/ ₂₀	49/100	30A/10A					30		800		3	
1743-1810	SHP	S	N	175 W	200	190	180	30 A			1/20	49/100	30A/10A					30		800		3	
1743-0820	SHP	S	N	175W	200	90	80	30 A			20/12	100/60	20A/30A					30		800		3	
1743-1220	SHP	S	N	175 W	200	130	120	30 A			20/12	100/60	20A/30A					30		800	_	3	
1743-1620	SHP	S	N	175 W	200	170	160	30 A			20/12	100/60	20A/30A				L	30		800		3	
1743-1820	SHP	S	Ñ	175 W	200	190	180	30A			20/12	100/60	20A/30A				L	30		800	_	3	
1743-0630	SHP	S	N	175 W	200	70	60	40 A	L		20/10	100%	300/ _{40A}	L				, 30		800		3	
2N5935	SHP	S	N	175 W	200	90	80	40 A			20/10	100%	30A/40A		<u> </u>	<u> </u>		30		800	_	3	
1743-1030	SHP	S	N	175 W	200	110	100	40 A			20/10	10%	30A/40A	L				30		800		3	
2N5936	SHP	S	N	175 W	200	130	120	40 A			20/10	100/50	30A/40A			-		30		800	,	3	
1743-1430	SHP	S	N	175 W	200	150	140	40 A			20/10	10%	30A/48A					30		800		3	
2N5937	SHP	S	N	175 W	200	170	160	40 A			20/10	100/50	30A/40A			<u> </u>		30		800	-	3	
1743-1830	SHP	_	N	175 W	200	190	180	40 A			20/10	10%	30A/ _{40A}			-	ļ	30		800		3	
1843	SHP	S	N	150 W	200	375	350	30 A	10 m	350	15	<u> </u>	5 A					20		500		3	
2N 1015	Р	S	N	150 W	150	30	30	7.5A	L	_	10	14	2 A			_	-	_		-	_		
2N1015A	Р	S	N	150W	150	60	60	7.5A		-	10	14	2 A			-	-			-	-	-	
2N1015B	Р	S	N	150 W	150	100	100	7.5A		_	10	14	2 A					-			-	-	
2N1015C	Р	S	N	150 W	150	150	150	7.5A			10	14	2 A			4		-			-		
2N1015D	Р	S	N	150 W	150	200	200	7.5A	_	-	10	14	2 A			1				-		-	
2N1015E	Р	S	N	150 W	150	250	250	_		_	10	14	2 A			-				-			
2N1015F	P	S	N	150 W	150	300	300	_		₩	10	14	2 A			-	 			\vdash	\vdash		
2N1016	P	S	N	150W	150	30	30	7.5A		-	10	-		-			-	-		_			
2N1016A	P	S	N	150 W	150	60	60	7.5A		+	10	18	_		-	+	-	-		_	-		
2N1016B	ļ	S	N	150 W	150 150	100	100	7.5A 7.5A		-	10	18			-		_	-		-	\vdash		
2N1016C	P	-	Ň	150W	150	200	200	7.5A			10	18	_				 						
2N1016D 2N1016E	P	S	N	150W	150	250	250	7.5A		\vdash	10	18	+			+		 		1			
2N1016E	P	S	N	150 W	150	300	300	7.5A	 		10	18		1			-	 			+-		
2N3429	SW	S	N	150 W	175	300	50	7.5A	-		10	35		\vdash			-	250 KHZ		800	+		
2N3429 2N3430	SW	S	N	150 W	175		100	7.5A		+	10	35		<u> </u>		+		250 KHZ		800			
2N3431	SW	S	N	150W	175		150	7.5A		+-	10	35	-	-		+		250 KHZ		800			
2N3431	SW	S	N	150 W	175		200		-		10	35			<u> </u>			250 KHZ	1	800		 	
2N3433	SW	s		150 W	175	1	250	7.5A			10	35	-	\vdash		+	+	250 KHZ		800			
2N2226	P	S	N	150 W	150	50	50	10A		\vdash	100	360	_	7				500 KHZ		<u> </u>	T-		U.H.GAI
2N2227	P	S		150 W	150	100	100	10A		\vdash	100	360	-	7			\top	500 KHZ			\vdash		U.H.GAIN
2N2228	P	s	N	150 W	150	150	150	10A			100	360	_	7	1			500 KHZ			_	\Box	U.H.GAIN
2N2229	P	S	+	150 W	150	200	200	10A			100	360		7	1			S00 KHZ					U.H.GAIN
2N2230	P	s	N	150 W	150	50	50	IOA			400	6 6 0		7				500 KHZ					U.H.GAII
2N2231	P	s	N	150 W	150	50	50	IOA			400	660		7				500 KHZ					U.H.GAIN
2N2232	P	S	N	150W	150	100	100	IOA	1		400	660	10A	7				S00 KHZ					U.H.GAII
2N2233	P	S	-	150 W	150	150	150	10A		T	400	660	IOA	7				500 KHZ					U.H.GAII
2N3470	Р	S	N	150 W	150	50	50	10A			100	360		7				500 KHZ					U.H.GAIN
2N3471	P	S	N	150 W	150	100	100	-			100	360	+	7				500 KHZ					U.H.GAL
2N3472	P	S	N	150 W	150	150	150	10A			100	360	10 A	7				S00 KHZ					U.H.GAIN
2N3473	P	s	_	150W	150	200	200	-			100	_		7		1		S00 KHZ					U.H.GAIN

TYPE	TOSHIBA	NEC .	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	E.T.C	NOTE
2N5038	2SD113Y								
2N5039	2SDII3Y			_		•			
2N5929	2SDI14Y								
2N5930						2SC1301			
2N5931					X	2SC1301	_		
2N5932	2SD114Y		_						
2N5933	2SD113Y								
2N5934						2SC1301			
1743-0610	2SDI14Y								
1743-1010	2SD113Y								
1743-1410				·		2SC1301			
1743-1810						2SC1301			
1743-0820									
1743-1220									
1743-1620							-		
1743-1820				- 1			-		
1743-0630	2SC1435	2SD179							1
2N5935	2SC1435	2SD179							
1743-1030	2S C 1435	2SD179							
2N5936	2SC1435	2SD179							+
1743-1430	2SC1435	2SD179							
2N5937	2SC1435	2SD179							
1743-1830	2SC1435	2SD179							
1843	2S C1435					2SC1302			
2N1015	2SD114			_		2SD196A			
2N1015A	2SD114	2SD132	-			2SD196A			
2N1015B	2SD113	2SD132				2SD196A			
2N1015C									
2N1015D									
2N1015E									
2N1015F	-		_	_					
2N1016		2SD132							
2N1016A		2SD132							
2N1016B		2SD132							
2N1016C						2SC1299			
2N1016D						2SC1299			
2N1016E						2SC1299			
2N1016F						2SC1299			
2N3429	2SD114-0				-	322.200			
2N3430	2SD113-0		_		-				
2N3431						2SC 30			-
2N3432					-	2SC1301	-		
2N3433						2SC1301			_
2N2226	2SD114Y	-				2301301			
2N2227	2SD113Y	-		-		-			
2N2228					+		-		
2N2229			-						-
2N2230				-	+				
2N2231									
2N2232									
2N2233			_	-					
2N3470				-					
2N3471									
2N3472				-1-					
2N3472									
2113473									

WESTING HOUSE

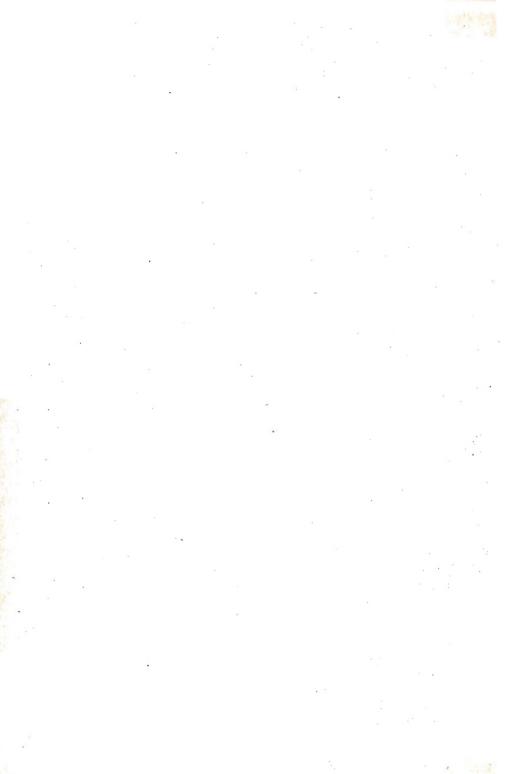
		4	>	MA	MUMIX	RAT	INGS						ELE	CTRICAL	CHARA	ACTERI	STICS					OUTLINE	
TYPE	USE	MATERIA	POLALITY	Pc 25°C	Tj	Vos	Voro	Ic	10	_		hfE		hfe	hie	hre	hoe	fr +fae ++fap	NF	Cob	Coxrbb	TO.	NOTE
		×	PQ.	(m\)	(2)	(V)	(V)	(mA)	(μA)	Vos(Y)	min.	max.	Ic(mA)		(<u>Q</u>)	(×10)	(µ0)	(MHz)	(dB)	(pF)	(ps)		
2N3474	Р	S	N	150W	150	50	50	IOA			400	660	10A					500 KHZ					U.H.GAIN
2N3475	Р	S	N	150W	150	100	100	I0A			400	660	10A					500 KHZ					U.H.GAIN
2N3476	Р	S	N	150W	150	150	150	I0A			400	660	10A					500 KHZ					U.H.GAIN
2N3477	P	S	N	150W	150	200	200	I0A			400	660	10A					500 KHZ					U.H.GAI N
153-04	P	S	N	200W	175	65	40	7.5A		65	15		1.5A										
154-04	Р	S	N	200W	175	65	40	7.5A		65	25		1.5A	-									
153-06	Р	S	N	200W	175	85	60	7.5A			15		1.5A										
154-06	Р	S	N	200W	175	85	60	7.5A			25		1.5A										
153-08	Р	S	N	200W	175	105	80	7.5A	-		15		1.5A										
154-08	Р	S	N	200 W	175	105	80	7.5A			2,5		1.5A			1					<u></u>		
153-10	Р	s	N	200W	175	125	100	7.5A			15		1.5A						· .				
154-10	Р	s	N	200 W	175	125	100	7.5A			25		1.5A									L	
153-12	P	s	N	200W	175	145	120	7.5A			15		1.5A										
154-12	Р	s	N	200 W	175	145	120	7.5A		Ī	25		1.5A										
153-14	Р	s	N	200W	175	165	140	7.5A			15		1.5A										
154-14	P	s	N	200W	175	165	140	7.5A		-	25		1.5A										
153-16	P	s	N	200 W	175	185	160	7.5A	ļ		15		1.5A			T							
154-16	P	S	N	200W	175	185	160	7.5A			25		1.5A										
153-18	P	s	N	200W	175	205	180	7.5A			15		1.5A										
154-18	P	s	N	200 W	175	205	180	7.5A			25		1.5A					 					
153-20	P	s	N	200W	175	225	200	7.5A			15		1.5A										
154-20	P	s	N	200W	175	225	200	7.5A		+	25	-	1.5A										
153-22	P	S	N	200 W	175	245	220	7.5A	 -	_	15		1.5A										
	P	-	N	200 W	175	245	220	7.5A		+	25		1.5A			+					_		
154-22	ــنـــا	S		200W	175	265	240	7.5A	-	-	15	-	1.5A		<u> </u>	+				_	+		
153-24	P	S	N	200W	175	_	240	7.5A	-	-	25	-	1.5A	┢		+		_		+	┿	 	
154-24	P P	S	N	200W	175	265 285	260	7.5A	<u> </u>	+	15		1.5A	-		+		-			+	†	
153-26	_	S	-		175		-	7.5A	-	1	25	\vdash	1.5A			+					+		
154-26	Р	S	N	200W	-	285	260	_		+	15		1.5A		+-		-	+		1	+		_
153-28	P	S	N	200 W	175	305	280	7.5A	₩-	\vdash	25		_		┼	+	-	+	<u> </u>		+	1	
154-28	Р	S	N	200 W	175	305	280	7.5A		\vdash	_		1.5A		-	+-	_	+-		-	+	-	1
153-30	P	S	N	200 W	175	325	300	7.5A	╄	+	15		1.5A	┝	-	+	-	+			+	-	<u> </u>
154-30	Р	S	N	200W	175	325	300	7.5A	<u> </u>	-	25		1.5A	1.5		+				-	-	3	
2N3055	P	S	N	115W	200	100	60	15 A		┼	20	_	4 A	15	_	+	-	25			+	3	
2N3442	Р	s	N	117W	200	160	160	_		-	20	_	3 A	12	_		-	25 KHZ 30			+	66	
2N3054	Р	s	N	29W	200	90	90	-	_	_	25	_	_	25		-	-	30 KHZ	_	050	+-	66	
1714-0402	S	S	-	100 W	200	50	40	10A	ļ	\perp	20		2 A	ļ	_	-	-	40		250	+		
1714-0405	S	S	N	100W	200	50	40	_		_	20	_	5 A	⊢	-	4_		40		250	+	66	
1714-0602	S	S	N	100W	200	70	60	_	_	_	20	_	2 A	<u> </u>	-		-	40		250	-	66	
1714-0605	S	S		_	200	70	60	-	_	4	20	_	5 A	<u> </u>	-	-	-	40	-	250	+-	66	
1714-0802	S	S	+-	100W	200	90	80	_	+	_	20	_	2 A	-	-	-	-	40		250	\vdash	66	+
1714-0805	S	s		100W	200	90	80	-		_	20	_	5 A	1	1	-	_	40	_	250	\vdash	66	-
1714-1002	S	S	_	100W	200	110	100			_	20	-	2 A		\perp			40		250	_	66	<u> </u>
1714-1005	S	S	N		200	110					20		5 A		<u></u>		1	40		250	+	66	
1714-1202	S	S	N	100 W	200	130	_				20		2 A	<u> </u>				40		250	\perp	66	
1714-1205	S	S	N		_	130	_	_	+		20		5 A	_		\perp		40		250	_	66	
1714-1402	S	S	N	100 W	200	150	140	IOA			. 20	_	2 A					40		250	_	66	
1714-1405	S	S	N	100W	200	150	140	10A	\		20	_	5 A	_				40		250	\perp	66	1
1714-1602	S	s	N	100 W	200	170	160	10A	1		20		2 A					40		250	\perp	66	
1714-1605	S	S	N	100 W	200	170	160	10A			20		5 A		Ĺ			40		250		66	
1714-1802	S	S	N	100W	200	190	180	10A			20		2 A					40		250		66	
1714-1805	_	S	N	100 W	200	190	180	10A	1	\top	20		5 A					40		250		66	
1723-0405		s				_	-	-		+-	20	1	5 A	_				30		800		3	
1723-0410		s	_		_	_	+	_	_	+	20		10 A	+-		\top		30		800		3	
1723-0605	_	S	-		_	_	_	_	_	+	20		5 A	_		+		30	1	800	\top	3	
1723-0610	_	S			-	_	-	-	+	+	20	-	10.4	_	+	+	_	30		800	-	3	

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TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N 3474						•	0		
2N3475									
2N3476									
2N3477	-						, -W .		
153-04	2SD114Y				6				
154-04	2SD114Y								1
153-06	2SD113Y								
154-06	2SD113Y								
153-08				2					
154-08						_			
153-10									
154-10									
153-12									
154-12									
153-14									
154-14									
153-16									
154-16								-	
153-18		,							
154-18			+						
153-20									<u> </u>
154-20	_								
153-22							_		···
154-22									
153-24						*			
154:24									
153-26									
154-26									
153-28									· · · · · · · · · · · · · · · · · · ·
154-28					-				
153-30									<u> </u>
154-30				 					
2N3055	2SD113Y	,							
2N3442	2001101								_
2N3054	2SD131		2SD 25			2SD175			
1714-0402	2SC1080	2SD151	200125			2SD176			
1714-0402	2001000	2SD151		-		2SD176			
1714-0403	2SC1080	200131				2SD176			
1714-0605	2001000					2SD176		-	
1714-0802	2SC1080					2SD176			
1714-0802	2301000					2SD176		_	
1714-0803	2SC 080		-	1		2SD170 2SD177			
1714-1002	2301080					2SD177			
1714-1005	2SC1079		+			2SD177 2SD197A			
1714-1202	23010/3		1		-	2SD197A			-
1714-1205	2SC1079		+			2SC1229		_	
1714-1402	23010/9		+	-		2SC1229 2SC1229			
1714-1405			 			2SC1229 2SC1229			
1714-1602					_	2SC1229 2SC1229			ļ
1714-1802				-		2SC1229 2SC1229			_
1714-1802				+		2SC1229 2SC1229			-
	2001141/						-		
1723-0405	2SD114Y			-		2SD231			-
1723-0410	2SD114Y					2SD231			
1723-0605	2SD114Y					2SD232			
1723-0610	2SD114Y					2SD232			

WESTING HOUSE

		AL.	-	MA	XIMUM	RAT	INGS			ELECTRICAL CHARACTERISTICS												OUTLINE	
TYPE	USE	MATERIAL	POLALITY	Pc 25°C (m\)	τ _j (τ)	Vos (V)	V ₀₈₀ (V)	Ic (mA)	Ια (μΑ)	ю Vos(V)	min.	hre max:	Ic (mA)	hfe	hie (Q)	hre (×10)	hoe (μδ)	f⊺ +fae +=fa¤ (MHz)	NF (dB)	Cob (pF)	Co×rbb' (ps)	TO.	NOTE
723-0805	S.A	S	N	100W	200	90	80	20 A			20		- 5A					30 10MHZ		800		3	
723-0810	S.A	S	N	100W	200	90	80	20 A			20		I0A					30 10 MHZ		800		3	
723-1005	S.A	S	N	100 W	200	110	100	20 A			20		5A					30 10 MH Z		800		3	
723-1010	S.A	S	N	100W	200	110	100	20 A			20		10A					30 10MHZ		800		3	
723-1205	S.A	S	N	100 W	200	130	120	20 A			20		5 A					30 10MHZ		800		3	
723-1210	S.A	S	N	100W	200	130	120	20 A			20		IOA					30 10MP1Z		800		3	
723-1405	S.A	S	N	100 W	200	150	140	20 A			20		5 A					30 10MHZ		800		3	
723-1410	S.A	S	N	100 W	200	150	140	20 A			20		lOΑ					30 10MHZ		800		3	
723-1605	S.A	S	N	100 W	200	170	160	20 A			20		5 A					30 IOMETZ		800		3	
723-1610	S.A	S	N	100W	200	170	160	20 A			20		10A			T		30 10MHZ		800		3	
723-1805	S.A	S	N	100W	200	190	180	20A			20		5A					30 10MHZ		800		3	
723-1810	S.A	S	N	100 W	200	190	180	20 A			20		10A					30 10MHZ		800		3	
N3711	S.A	s	N	150W	200	50	40	30 A	2 m	50	15	60	15A	40				1.5		500		3	
561-0615	S.A	S	N	150W	200	60	60	30 A	2 m	50	15	60	15A	40				1.5		500		3	
561-0815	S.A	S	N	150W	200	80	80	30A	2 m	50	15	60	15A	40				1.5		500		3	
561-1015	S.A	S	N	150W	200	100	100	30 A	2 m	50	15	60	15A	40				1.5		500		3	
561-1215	S.A	S	N	150W	200	120	120	30 A	2 m	50	15	60	15A	40				1.5		500		3	
561-1415	S.A	S	N	150W	200	140	140	30 A	2 m	50	15	60	15A	40				1.5		500		3	
561-1615	S.A	S	N	150W	200	160	160	30 A	2 m	50	15	60	15A	40				1.5		500		3	
2N3722	S.A	S	N	150W	200	100	60	20 A	5 m	60	15	60	15A	40				1.5		600		3	
561-0410	S.A	+	N	150W	200	50	40	20 A	5 m	40	15	60	15A	40				1.5		600		3	
561-0610	S.A	S	N	150W	200	70	60	20 A	5 m	60	15	60	15A	40				1.5		600		3	
561-0810	S.A	S	N	150W	200	90	80	20 A	5 m	80	15	60	15A	40				1.5		600		3	
561-1010	S.A	S	N	150W	200	110	100	20 A	5 m	100	15	60	15A	40		-		1.5		600		3	
561-1210	S.A	S	N	150W	200	130	120	20 A	5 m	120	15	60	15A	40				1.5		600		3	
561-1410	S.A	S	N	150W	200	150	140	20 A	5 m	140	15	60	15A	40			Γ_	1.5		600		3	
561-1610	S.A	S	N	150W	200	170	160	20 A	5 m	160	15	60	15A	40				1.5		600		3	
2N3773	S.A	S	N	150W	200	160	140	16A	5 m	140	15	60	8 A	40				1.5		600		3	
1561-0408	S.A	S	N	150 W	200	50	40	20 A	5 m	40	15	60	8 A	40		Τ-		1.5		600		3	
1561-0608	S.A	S	N	150W	200	70	60	20 A	5 m	60	15	60	8 A	40				1.5		600		3	
561-0808	S.A	S	N	150W	200	90	80	20 A	5 m	80	15	60	8 A	40				1.5		600		3	Ĺ
561-1008	S.A	S	N	150 W	200	110	100	20 A	5 m	100	15	60	8 A	40	*			1.5		600		3	
1561-1208	S,A	S	N	150W	200	130	120	20 A	5 m	120	15	60	8A	40				1.5		600		3	
1561-1608	S.A	s	N	150W	200	170	160	20 A	5 m	160	15	60	8 A	40				1.5		600		3	
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				· ·		Fujitsu	SONY	E.T.C	NOTE
TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJII50	SUNT	E.1.C	NOTE
1723-0805	2SD113Y					2SD232			
1723-0810	2SD113Y					2SD232		1	
1723-1005						2SD232			
1723-1010						2SD232			
1723-1205						2SC1301			
1723-1210						2SC1301			
1723-1405						2SC 30			
1723-1410						2SC1301			
1723-1605						2SC 30			
1723-1610						2SC1301			
1723-1805						2SC1301			
1723-1810						2SC1301			
2N3711	2SD114Y								
1561-0615	2SD114Y								
1561-0815	2SDII3Y								
1561-1015	2SD113Y	2SD179							
1561-1215		2SD179							
1561-1415		2SD179							
1561-1615		2SD179						·	
2N3722	2SD113Y								
1561-0410	2SD 4Y								
1561-0610	2SD114Y								
1561-0810	2SD113Y								
1561-1-010		2SD179				-			
1561-1210	_	2SD179							
1561-1410		2SD179							
1561-1610		2SD 79							
2N3773									
1561-0408	2SD114Y								
1561-0608	2SD114Y								
1561-0808	2SD113Y								
1561-1008		2SD179				2SC1301			
1561-1208		2SD179				2SC1301			
1561-1608		2SD179				2SC1301			
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AEG-TELEFUNKEN

AEG-TELEFUNKEN

	USE	7	7		XIMUM	RA	TINGS				_		ELE	CTRICAL	. CHARA	CTERI	STICS	1 4- 1				OUTLINE	
TYPE	USE	MATERIAL	POLALITY	Pc 25℃ (m₩)	(C)	Vos (V)	V 080 (V)	ic (mA)	lα (μ A)	90 Vos(V)	min.	hee max.	ic(mA)	hfe	hie (Q)	hre (×10)	hoe (μδ)	f⊺ *fae **fa¤ (MHz)	NF (dB)	Cob (pF)	Coxrbb' (ps)	10-	NOT
ACI16	AF	G	P	145	90	30	18	200	4.5	6	55	140	4					1		21		DIN 1883	
ACI17	AF	G	P	260	90	32	18	IA	6	6	40	110	300					10				DIN 1883	
AC122	AF	G	P	130	90	30	18	200	8	6	40	300	2					15		21	_	DIN 1883	
AC122-30	AF	G	P	130	90	45	32	200	8	6	40	300	2		L			15		21		DIN 1893	
AC123	AF	G	P	145	90	45	32	200	8	6	55	140	4					- '		2		DIN 1883	
	$\overline{}$	G	P	260	90	45	_	1 A	18	6	40	170	300					11		-		DIN 1883	
AC124	AF	G	P		90	30	32	I A		6	40	120	300									1883 - DIN 1883	
AC131	AF	-	-	215		-	18		18	6	_											01N 1883	
AC131-30	AF	G	P	215	90	45	32	i A	18		40	120	300	100	0.14								
AC150	AF	G	P	60	75	30	18	50	8	6	180	300	2	100	2 K	_	52		5	21		DIN 1893	
AC170	AF	G	Р	90	90	32	32	200	10	10	50	125	2	80	2.5K	5.5	65	1.2	5	21		DIN 1883	
AC 171	AF	G	Р	90	90	32	32	200	10	10	65	180	2	130	4 K	6	83	1.7	5	21		DIN 1863	
AC175	AF	G	N	260	90	25	18	1 A	13	15	60	165	50									DIN 18B3	
AC178	AF	G	Р	180	90	20	15	700	6	6	60	185	50									01 N 18B3	
AC179	AF	G	N	180	90	20	15	700	10	6	60	185	50									01N 1883	
AC 186	AF	G	N	215	90	30	18	700	13	15	60	400	50									DIN F8B3	
ACI87K	AF	G	N	I W	90	25	15	ΙA	7	10	100	500	300					5		100		DIN 1883	
AC188K	AF	G	Р	ΙW	90	25	15	ΙA	5	10	100	500	300					1.5		100		DIN 1883	
		_																					
	_																						
		-					<u> </u>																
AD149	P	G		27.5W	100	50	30	3.5A	l m	32	30	100	I A					0.3		220		3	
AD150	Р	G	Р	27.5W	001	32	30	3.5A	l m	32	50	100	I A					0.45				3	
AD152	P	G	Р	6 W	90	45	23	LA	20	6	35	160	500									SOT 9	
AD155	Р	G	P	6 W	90	25	15	I A	20	6	35	115	500									S07 9	
AD161	Р	G	N	4 W	90	32	20	I A	50	20	80	320	500									SOT 9	
AD 162	Р	G	Р	6 W	90	32	20	ΙA	40	20	80	320	500									SOT 9	
AD164	Р	G	Р	6 W	90	25	20	i A	20	6	60	185	500									SOT	
AD165	Р	G	N	5.3W	90	25	20	ΙA	15	6	60	185	500									SOT 9	
- 3																							
		\vdash																					
AF 106	HF	G	Р	60	90	25	18	10	0.5	12	25	50	1	30				200			6	72	
AF109R	HF	G	Р	60	90	20	15	01	0.5	20	55		2					270				72	
AF 121	HF	G	Р	67	75	25	25	10	1.2	10								\sqcup					
AF 134	HF	G	Р	60	75	25	18		2.5	6	110	L	1	110				55			25		
AF 135	HF	G	Р	60	75	25	18		3	6	100		I					50			25	DIN 18	
AF 136	HF	G	Р	60	75	25			3	6	80			40				40			25	DIN 18	
AF137	HF	G	P	60	75	25			3	6	60		1					35			25	DIN 18	
AF138	HF	G	Р	60	75	25			1.5	6	60	100	1					40			25	DIN 18	
AF 139	HF	Ğ	Р	60	90	20	15	10	0.5	20	10	55	2					550			3	72	
AF 239	HF	G	P	60	90		15	10	0.5	20	10	33	2	 				650				72	
AF 239S	HF	G	Р	60	90		15	10	5.5	20	10	50	2			-		780				72	
	-	G	P	90	90	25		10	0.5	12	10	28	1	-	_			330			12	901 25	
AF 256	HF	-	P	60		25	18		0.5	12	10	50	2		<u> </u>			780			12	50	
AF 279	HF	G	Р	60	90		15	10	ļ		10	25	2	-		-		550				50	
AF 280	HF																						

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
ACI16	2SB63	2SB105		2SB135			2SB52-		
ACII7				2SB356				-	
AC122				2SB135					
AC122-30		2SB108A							
AC123	-	2SB108A							
ACI24				2SB458A					
ACI3I	2SB415			2SB458A					
AC131-30				2 SB 458A					
AC 150	2SB439			2SB134		•			
AC170	2SB461			2SB453	2SB371				
AC171				2SB135	-				
AC175	2SC513			2SC775		2SC224			
AC178	2SB415			2SB494					
AC179	2SC992								1
AC186	2SC992		_						
AC187K	2SC513	+	2SC315						1.
AC188K	200010		200010	2SB458				2SB373	
7.01001				200400				2003/3	
									+
								+	
		-						+	-
									-
								_	
		*							
AD149	2SB424	2SB248A	2SB361					2SB509	
AD150	2SB426	2SB248	2SB361					2SB509	
AD152	2SB462			2SB524					
AD155	2SB463				2SB493			2SB492	
AD161	2S C 525	2SC637				2SC541			
AD162	2SB463				2SB481				
AD164	2SB463				2SB481				
AD165		2SC637		2SC699		2SC541			
								_	
		-							
									
			 						
AF 106	20 4 425		2SA373A		2SA447				
AF 106	2SA495		2SA373A 2SA373A		2SA447 2SA447			+	1
	2SA518		23A3/3A	_	+				
AF 121	2SA500	1			2SA447	25 4 5 2 4	 		-
AF 134	2SA594	-			+	2SA524 2SA524		1	
AF 135	2SA594				-	ZSA5Z4			
AF136	2SA495						ļ	+	-
AF 137	2SA495							-	
AF138	2SA 495								
AF139		2SA404			2SA310	2SA524			
AF 239					2SA310	2SA524			
AF239S					2SA310	2SA524			
AF256					2SA310				
AF279					2SA310				
AF280					2SA310				
-				1					_

AEG-TELEFUNKEN

		ږ	_	MA	MUMIX	RAT	INGS						ELE	CTRICAL	CHARA	CTERIS	STICS						
TYPE	USE	MATERIAL	POLALITY	Pc 25℃	Tj (m)	Va	V _{OED}	lc	lo			hre		hfe	hie	hre	hoe (*)	ft *fae **fao	NF	Cob	Coxitib	OUTLINE TO-	NOTE
	1.5	_	\vdash	(m₩)	(3)	(V)	(V)	(mA)	(μ A)	VOB(V)	min.	max.	ic(mA)		(Ω)	(×10)	(pg)	(MHz)	(dB)	(pF)	(ps)	18	
BC107A	AF	S	N	300	175	50 50	45	100	15	20	125	260	2			-	*	300	10	2.5		18	
BC107B	AF	S	N	300	175				15		240	500 260	2					300	10	2.5		18	
BC108A BC108B	AF	S	N	300	175	30	20	100	15	20	125 240	_	2			-		300	10	2.5		18	
	AF	S	N	300	175	30	20	100	15	20	450	500 900	2					300	10	2.5		18	-
BC108C BC109B	AF	S	N	300	175	30	20	100	15	20	240	500	2			\vdash		300	10	2.5		18	
BC109B	AF	S	N	300	175	30	20	100	15	20	450	900	2			\vdash		300	10	2.5		18	
BC110	AF	S	N	300	175	80	80	50	100n	80	30	90	2					100	10	5		18	
BC129A	AF	S	N	135	175	50	45	100	15	20	30	180	2	125	2.7	1.5	18	300	3	4.5		18	
BC129B	AF	S	N	135	175	50	45	100	15	20		290	2	240	4.5	2	30	300	3	4.5		18	
BC130A	AF	S	N	135	175	30	20	100	15	20	^	180	2	125	2.7	1.5	18	300	3	4.5		18	
BC130B	AF	S	N	135	175	30	20	100	15	20		290	2.	240	4.5	2	30	300	3	4.5		18	
BC130C	AF	S	N	135	175	30	20	100	15	20		520	2	450	8.7	3	60	300	3	4.5		18	
BC131B	AF	S	N	135	175	30	20	100	15	20		290	2	240	4.5	2	30	300	4	4.5		18	
BC131C	AF	S	N	135	175	30	20	100	15	20		520	2	450	8.7	3	60	300	4	4.5	-	18	
BC140	AF	S	N	650	175	30	40	1.0	13	20	40	250	100	4.50	0.7		00	50	4.	4.3		39	
BC140	AF	-	N	650	175		60	IA		-	40	250	100					50	10		-	39	
BC141 BC147A	AF	S	N	300	175	50	45	100	5	20	125	260	2					300	10	2.5	<u> </u>	SOT 25	
BC147B	AF	-	N		175	50	45	100	5	20	240	500	2					300	10	2.5		25 SOT 25	
BC148A	AF	S	N	300	175	30	20	100	5	20	125	260	2					300		2.5	-	25 SQT 25	
	AF	S	N	300	175	30	20	100	5	20	240	500	2					300				25 SOT 25	
BCI48B BCI48C	AF	S	N	300	175	30	20	100		20	450	900	2					300			-	25 SOT 25	
	AF	S	N	300	175	30	20	100	5	20	240	500	2					300				25 SOT 25	
BC149B	-	S	-			30					450	900	2					300				25 SOT 25	
BC149C	AF AF	S	N	300	175	5	20 5	100 50	5 100n	20	85	900	0.5					50				25 TOM 13	
BC155 BC156	AF	-	N	105	125	5	5	50	100n	5	85	900	0.5					50				13 TOM 23	
BC156	AF	S	P	50 650	175	5_	40	A i	10011	5	40	250	100					50				39	
BC161	AF	S	P	650	175		60	IA		-	40	250	100					50				39	
BC167	AF	S	N	300	150	50	45	100	5	20	180	290	2					300				92	
BC168	AF	-	N	300	150	30	20	100	5	20	180	520	2		-			300				92	
BC169	AF	S	N	300	150	30	20	100	5	20	290	520	2					300	-		_	92	,
BC177VI	AF	S	P	300	175	50	45	100	10	20	75	150	2	75	1.4	2.5	20	130	10	4.5		18	
BC17741	AF	S	P	300	175	50	45	100	10	20	125	260	2	125	2.7	3	25	130	10	4.5		18	
BC177B	AF	S	P	300	175	50	45	100	10	20	240	500	2	240	4.5	3.5	35	130	10	4.5		18	
BC177B	AF	S	P	300	175	30	25	100	10	20	75	150	2	75	1.4	2.5	20	130	10	4.5		18	
BC178V	AF	S	P	300	175	30	25	100	10	20	125	260	2	125	2.7	3	25	130	10	4.5		18	
BC178B	AF	S	Р	300	175	30	25	100	10	20	240	500	2	240	4.5	3.5	35	130	10	4.5		18	
BC178C	AF	S	P	300	175	30	25	100	10	20	450	900	2	450	8.7	4	45	130	10	4.5		18	
BC178C	AF	S	P	300	175	25	20	100	10	20	125	260	2	125	1.4	3	25	130	10	4.5		18	
BC179B	AF	S	P	300	175	25	20	100	10	20	240	500	2	240	2.7	3.5	35	130	10	4.5		18	
BC179B BC179C	AF	S	P	300	175	25	20	100	10	20	450	900	2	450	4.5	4	45	130	10	4.5		18	
BC182A	AF	S	N	300	150	60	50	200	15n	50	125	260	2	260	4.3		43	150	10	5		92	
BC182B	AF	S	N	300	150	60	50	200	15n	50	240	500	2	500	-			150	10	5		92	
BC182B BC194	AF	S	N	105	125	40		800	100n	30	40	250	10	500	<u> </u>			100	10	8		TOM 13	
BC194	AF	S	P	50	125	30	25 25	100	50n	20	40	140	2	75				150	10	4		TOM	
BC196A	AF	-	P	50	125	30	25	100	50n	20		180	2	125	_			200	10	4		23 T OM 23	
BC196B	AF	S	P	50	125	30	25	100	50n 50n	20		290	2	240				250	10	4		Z3 TOM	
BC196B BC197	AF	S	N	135	175	50	45	100	50n 5	20		180	2	250	2.7	1.5	30	300	10	4		23 TOM	<u> </u>
BC197 BC198A	AF	S	N	135		30	20	100	5	20		180	2	220	2.7	1.5	18	300	10	4.5		23 TOM	
	AF	-	N	135	175 175	30	20	100	5	20		290	2	330	4.5		30	300	10	4.5		23 TOM 23	
BC 198B	AF	S	-		_		20		5	-		520	2	600	_	2		300	10	4.5		Z3 TOM	
BC 198C		S	N	135	175	30		100	_	20	200				8.7	3	60		10			23 YOM 23	
BC199	AF	S	N P	135 300	175	30	20	200	5	20	290	520 300	2	330	4.5	2	30	300	10	4.5		92	
0.001						60	50	200	15n	30	60		. 2	. 41111		1		200	111	. 5			
BC212 BC237A	AF AF	S	N	300	150	50	45	100	5	20	125	260	2	220	2.7	1.5	18	300	10	4.5		92	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	E.T.C	SANYO	NOTE
BC107A	2SC980		2SC152	2SC302	2SC478				
BC107B	2SC980		2SC152	2SC302	2SC478				
BC108A	2SC733			2SC301	-	2SC565		2SC427	
BC108B	2SC733			2SC301		2SC565		2SC427	
BC108C	2SC733			2SC301		2SC565		2SC427	
BC109B				2SC301				2SC427	
BC109C				2SC301				2SC427	
BC110						2SC205			
BC129A	2SC734	_		2SC714					
BC129B	2SC734			2SC714					
BC130A	2SC1000	2SC651		2SC712		2SC965			
BC130B	2SC1000	2SC651		2SC712		2SC965			
BC130C	2SC1000	2SC651		2SC712		2SC965			
BC131B	2SC1000	2SC651		2SC712		2SC965			
BC131C	2SC1000	2SC651	-	2SC712		2 S C 965	_		
BC140	2SC486		2SC708						
BC141	2SC486	_	2SC708A						
BC147A	2SC1000		1	2SC714					
BC147B	2SC1000			2SC714					
BC148A	2SC1000	2SC651		2SC712		2SC965			
BC148B	2SC1000	2SC651		2SC712		2SC965		`	
BC148C	2SC1000	2SC651		2SC712		2SC965			
BC149B	2SC1000	2SC651		2SC712	 	2SC965			
BC149C	2SC1000	2SC651		2SC712		2SC965	(沖)		
BC155							2SC1288		
BC156							2SC1288		
BC160		2SA571		2 SB458A				-	
BC161		2SA571		2 SB458 B					
BC167			2SC317						1
BC168			200017	2SC619		2SC238	_		
BC169		+		2SC619		2SC238			
BC177V1		2SA710	-	2SA697					
BC177A		2SA710		2SA697					
BC177B		2SA710		2SA697					
BC178V1	2SA402	2SA710		2SA696					
BC178V	2SA402 2SA402	2SA710	-	2S A 696					
BC178B	2SA402 2SA402	2SA710	+	2SA696	-				
BC178C	2SA402 2SA402	2SA710		2SA696					
BC178C	2SA402 2SA402	2SA710 2SA710	2SA373A	2SA695	-				
BC179A		2SA710	2SA373A	2SA695	* .		-		+
	2SA402	2SA710 2SA710	2SA373A 2SA373A	2SA695	 	-	(JRC)		
BC179C	2SA402			2SC307	 		2SC952	-	
BC182A		2SC853	2SC479	2SC307 2SC307			2SC952 2SC952	+	
BC 182B	000100	2S C853	2SC479	2SC307 2SC303	 		200352	+	
BC194	2SC468				25 45544		+	2SA608	
BC196VI			<u></u>	2SA375	2SA564A 2SA564A			2SA608	+
BC196A				2SA375			+	2SA608	
BC196B	20.0000		-	2SA375	2SA564A		+	23A000	
BC197	2SC980			2SC302		-			
BC198A	2SC1000	-		2SC302	-			_	
BC198B	2SC1000		+	2SC302			+	 -	
BC198C	2SC1000			2SC302	-		-		
BC 199	2SC1000		-	2SC302	-				
BC212		2SA544		2 SA 697					
BC237A	2SC734			2SC714	-				
BC237B	2SC734			2 S C 7 1 4					

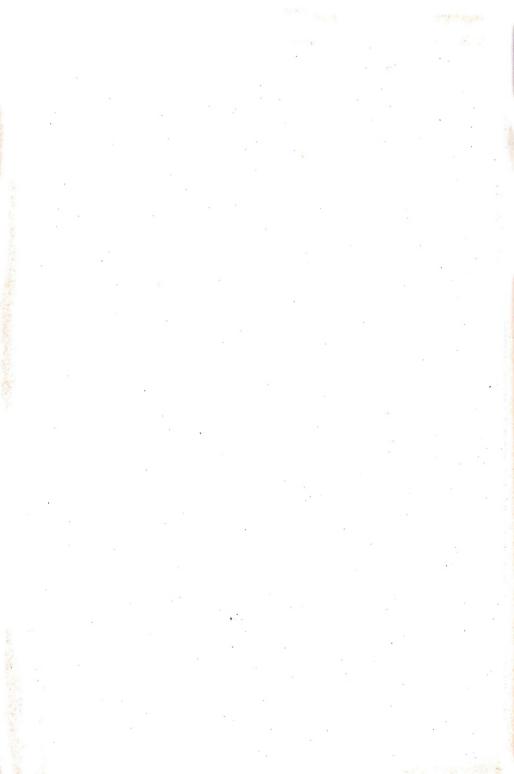
AEG-TELEFUNKEN

		¥	7		XIMUM	RA	TINGS	,					ELE	CTRICA	L CHARA	CTERIS	STICS					OUTLINE	
TYPE	USE	MATERI	POLALITY	Pc 25°C	Tj (m)	Vas	Voao	Ic	le			hre		hfe	hie	hre	hoe	fī *taē **tab	NF	Cob	Coxitob	TO.	NOT
-				(mW)	(7)	(V)	(V)	(mA)	(μ A)	Vos(V)	min.	max.	Ic(mA)		(Q)	(×10)	(µ0)	(MHz)	(48)	(pF)	(ps)		
BC238	AF	S	N	300	150	30	20	100	5	20	180	520	2	330	4.5	2	30	300	4	2.5		92	
BC239	AF	S	N	300	150	30	20	100	5	20	290	520	2	330	4.5	2	30	300	4	2.5	<u> </u>	92	
BC307	AF	S	Р	300	150	50	45	100	10	20	140	290	2	330	4.5	3	35	130	4	2.5		92	
BC308	AF	S	Р	300	150	30	25	100	10	20	140	520	2	330	4.5	3	35	130	4	2.5		92	
BC309	AF	S	P	300	150	25	20	100	10	20	180	520	2	330	4.5	3	35	130	4	2.5		92	
BC327	AF	S	Р	500	150		45	500			63	630	100					100		12		92	
BC328	AF	S	Р	500	150		25	500			63	630	100					100		12		92	
BC337	AF	S	N	500	150		45	500			63	630	100					100		12		92	
BC338	AF	S	N	500	150		25	500			63	630	100					100		12		92	
BC413	AF	S	N	300	150	45	30	100	15n	30	180	800	2	600	8.7K	3	60	250	3	2.5		92	lownois
BC414	AF	S	N	300	150	50	45	100	15n	30	180	800	2	600	8.7K	3	60	250	3	2.5		92	
BC415	AF	S	P	300	150	45	35	100	15n	30	120	800	2	330	8 K	3.5	70	200	2	4.5		92	
BD416	AF	S	Р	300	150	50	45	100	15n	30	120	800	2	330	8 K	3.5	70	200	2	4.5		92	
		Г									Г												_
BD127	Р	s	N	17.5W	150	300	250	500	50n	150	30		50									126	
BD128	P	s	N	17.5W	150	350	300	500	50n	150	30	-	50		_						+	126	
BD129	P	s	N	17.5W	150	400	350	500	50n	150	30		50			Н						126	
BD135	AF	s	N	1 W	150	45	45	1 A	100n	30	45	250	150	250		H		50		-	-	126	
BD136	AF	s	P	1 W	150	45	45	I A	100n	30	40	250	150	250		\vdash		50				126	
BD137	AF	s	N	I W	150	60	60	I A	100n	30	40	160	150	160		\vdash		50				126	-
BD138	AF	S	P	iw.	150	60		i A	100n	30		180	150	160				50				126	
BD139	AF	S	2	1 W	150	80	60 80		100n	30	40	160	150	160								126	-
BD140	AF	S	P		150	80	_	I A	100n	-	40	180	150	160			-	50 50					
		_	·	1 W			80	I A		30		100				-		3				126	
BD165	AF	s	N P		150	45	45	1.5A	100	45	40		150							_		126	
BD166	AF	S		20W	150	45	45	1.5A	100	45	40		150					3			\vdash	126	
BD167	AF	S	N	20W	150	60	_	1.5A	100	60	40		150					3		_	-	165	
BD168	AF	S	Р	20W	150	60	60	1.5A	100	60	40		150		_			3				165	
BD169	AF	S	N	20W	150	80	80	1.5A	100	80	40		150					3			_	165	
BD170	AF	S	Р	20W	150	80	80	1.5A	100	80	40		150					3				165	
BD213-45	Р	S	N	90 W	150	45	45	15A	500	45	40		1.5A					_ 3 、					
BD213-60	Р	S	N	90W	150	60	60	15A	500	60	40		1.5A					3					
BD213-80	Р	S	N	90W	150	80	80	15A	500	80	40		1.5A					3					
BD214-45	Р	S	Р	90 W	150	45	45	15A	500	45	40		1.5A					3				-	
BD214-60	Р	S	Р	90 W	150	60	60	15A	500	60	40		1.5A					3			L		
BD214-80	Р	S	Р	90 W	150	80	80	15 A	500	80	40		1.5A					3					
BD233	Р	S	Ν	25 W	150	45	45	2 A	100	45	40		150					3				126	
BD234	Р	S	Ρ	25 W	150	45	45	2 A	100	45	40		150					3]		_	126	
BD235	Р	S	N	25 W	150	60	60	2 A	100	60	40		150					3				126	
BD 236	Р	S	Р	25 W	150	60	60	2 A	100	60	40		-1.50					3				126	
BD237	Р	S	N	25 W	150	80	80	2 A	100	80	40		150					3				126	
BD238	Р	S	Р	25 W	150	80	80	2 A	100	80	40		150			-		3	-			126	
BD585	Р	S	N	42₩	150	45	45	4 A	100	45	40		500					3				126	
BD586	Р	S	Р	42W	150	45	45	4 A	100	45	40		500					3				126	
BD587	P	S	N	42W	150	60	60	4 A	100	60	40		500					3				126	
BD588	Р	s	Р	42W	150	60	60	4 A	100	60	40		500					3				~ 126	
BD589	Р	S	N	42 W	150	80	80	4 A	100	80	30		500				_	3			_	126	
BD590	P	S	P	42W	150	80	80	4 A	100	80	30		500			\vdash		3			-	126	
BD 595	P	S	N	55 W	150	45	45	8 A	100	45	40		1 A					3					
BD596	P	S	P	55 W	150	45	45	8 A	100	45	40		IA.			-		3	-			-	
BD597	P	S	N	55 W	150	60	60	8 A	100	60	40		I A			-		3				-	
	P	S	P					8 A								\vdash		3					
BD598	P	_	-	55 W	150	60	60	_	100	60	40		IA						-		_		
BD599	P	S	N	55W	150	80	80	8 A	100	80	30		IA		ļ	\vdash		3					
BD600	P	S	Р	55 W	150	80	80	8 A	100	80	30		ΙA					3			L		

TYPE	TOSHIBA	NEC	НІТАСНІ	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
BC238	_		-		2SC619				
3 C 2 3 9					2SC619				
3C307	2SA522A	2SA710	2SA548						
BC308	2SA522A	2SA710							
BC309	2SA402	2SA710							
BC327					2SA731				
BC328			-	2SA695	2SA730				
BC337	2SC495		2SC1214			2SC968			
BC338	2SC509		2SC1214			2SC967			
BC413		2SC1330		2SC1313					
BC414		2SC1330		2SC1313					
BC415	2SA561			2SA726	2SA550 A	-	2SA705		
B 416	2SA561			2SA726			2SA705		
		-	_						
			-						
BD127	2SC782					2SC825			
BD128			2SC833				2SC867		
BD129			2SC833				2SC867		
BD135		-		2SC816					
BC136		2SA715			2SA752		2SA706		
BD137	2SC513		2SC 708	2SC816		2SC1052			
BD138	2000.0	2SA715		2-00.0	2SA752		2SA762		
BD139	2SC512	2011710	2SC708A	2SC776		2SC1069	2SC1124		
BD140	200012		20010011				2SA762		
BD165				2SC737				-	
BD166	2SA490		2SA670						
BD167	237430		20/10/0	2SC737		2SC865			
BD 168	2SA740	2SA616		200707					
BD169	2SC779	23A010		2SC766					
BD170	2SA740	2SA616		250700					1
		23A010		_		2SD231	,		
BD213-45	2SD114		2SD341			2SD231	2SD339		-
BD213-60	2SD114	000101				2SD232	2SD 339		_
BD213-80	2SD113	2SD181	2SD341	2SB 478		230232	230333	_	
BD214-45			2SB332	2SB478			2SB519		-
BD214-60			2SB332	2SB479			2SB519		
BD214-80			2SB333	258479	200046		230313		
BD233		2SC290		_	2SC646			2SB216	
BD234	2SB434				2SB513			258216	
BD235		2SC290			2SC 646	*		ac Dal E	
BD236					29B 513			2SB215	
BD237			2SC679						
BD238							 		
BD585	2SC521A	2SC244		-			-		
BD586		2SB251A			2SB129		-	-	
BD587	2SC520	2SC244		 	2SC647				
BD588		2SB251A	2SB 228		2SB129	2SB151			
BD589	2SC520	2SC245	2SC664		2SC647				
BD590		2SB253	2SB 228		2SB129	2SB151			-
BD595	2SD111		2SD124 A						
BD596	2SB531								
BD597	2SD111		2SD124 A						
BD598	2SB531								
BD599	2SD111			2SC 889		2SC902			
				1					

	1	-	_	M/	XIMUN	I RA	TIŃGS						ELI	CTRICA	L CHAR	ACTER!	STICS						
TYPE	USE	ERIAI	POLALITY	Pc	Tj	Vas	V ceo	lc		090	Π	hre		hte	hie	hre	hoe	ft		0.1	Cox rbb'	OUTLINE	NOTE
1111	USE	MATERIAL	POL	25°C (mW)	(2)	(V)	(V)	(mA)	(μA)	V08(V)	min.	max.	Ic(mA)	nie	(<u>Q</u>)	(×10)		*fae **fa¤ (MHz)	NF (dB)	Cob (pF)	(ps)	TO-	NOT
BD675	P	s	N	40W	150		45	4 A	<u> </u>	1	50		2 A					(MIIZ)				SOT 32	
BD676	Р	S	Р	40 W	150		45	4 A		1	50		2 A					Ė				SOT 32	_
BD677	Р	S	N	40 W	150		60	4 A		_	50	<u> </u>	2 A			-		i				SOT 32	
BD678	Р	S	P	40 W	150		60	4 A			50		2 A					i i				SOT 32	
BD679	P	S	N	40 W	150		80	4 A		┼	50		1.5A	-				1				3 2 SOT 3 2	
BD680	P	S	Р	40 W	150	-	80	4 A			50		1.5A					i i		_	-	3 2 SOT 3 2	
BD695	P	S	N	70 W	150		45	5 A		1	250		4 A					-				32 TOP 66	
BD696	P	S	P	70 W	150	-	45	5 A	\vdash	-	250		4 A					+				66 TOP 66	
BD697	P	S	N	70 W	150			5 A	_	-	-							<u> </u>			_	66 TOP 66	
BD698	P	S	P	70 W	150		60				250		4 A	_		-		!				66 TOP	
	P	_		70 W	_		60	5 A	_	-	250	-	4 A	_								10P 66	
BD699 BD700	P	S	N P	70 W	150	ļ	80	5 A	<u> </u>	ļ	250	_	3 A					1				T OP 66	
		S				-	80	5 A		_	250		3 A	_				1				1 0P 66	
BD701	Р	S	N	70 W	150		100	5 A		\vdash	250		3 A					ı				T OP 66	
BD702	P	S	Р	70 W	150		100	5 A		\vdash	250		3 A					- 1				T OP 66	
BF115	HF	S	N	145	175	50	30	30	0.5	20	40	<u> </u>	20					230	1.5	0.8		72	
BF 167	HF	S	N	130	175	40	30	25			27	57	4					350	3	1.5		72	
BF 173	HF	S	N	200	175	40	25	25			38	90	7					550		2.3		72	
BF 177	HF	S	N	600	200		100	50			20		30					120		1 .8	25	5	ΤV
BF178	HF	S	Ν	600	200		185	50			20		30					120		1 .8	25.	5	ΤV
BFI79A	HF	S	N	600	200		185	50			20		20					120		1.8	25	5	ΤV
BF 79B	HF	S	N	600	200		220	50			20		20					120		1.8	25	5	TV
BF179C	HF	S	N	600	200		250	50			20		20					120		1.8	25	5	TV
BF 184	HF	S	N	145	175	30	20	30			67	220	1					260		3.5		72	
BF 185	HF	S	N	145	175	30	20	30			36	125	1					200				72	
BF 194	HF	S	N	300	150	30	20	30			67	220	J			-		260				SOT 25	
BF 254	HF	S	N	300	150	30	20	30			67	220	1			Н		260				92	
BF 195	HF	S	N	300	150	30	20	30			36	125	1					200				90T 25	
BF 255	HF	S	N	300	150	30	20	30	_		36	125	i					200				92	
BF 196	HF	S	N	300	150	40	30	25		_	27	80	4					400	3			S0T 25	ΤV
BF 198	HF	S	N	300	150	40	30	25			27	80	4					400	3			92	TV
BF197	HF	S	N	300	150	40	25	25		-	38	88	7					550	<u> </u>			SOT 25	ΤV
BF 199	HF	S	N	300	150	40	25	25			38	88	7	_				550				92	ΤV
BF223	HF	s	N	360	150	35	25	40	50n	20	.40	79	15					750				90T 25	
BF311	HF	S	N	360	150	35	25	40	50n	20	40	79	15					750		-		92	
BF 227	HF.	s	Z	50	125	40	25	25	3011	20	30	100	3			-		600				TOM 23	
BF 228	HF	S	N	50	125	100	90		100n	75		100						50					
BF 229	HF	S	2 2	50	125	30	20	50 30	10011	75	30	220	2									TOM 23 TOM	
BF 230	HF	S	Z	50	125	30	20	30		\vdash	67	220	_					260				TOM 23 TOM	
BF 240	HF	S	2	300	150	40	40	25	100:		36	125	-					200	-	- 1		23	
_		_	$\overline{}$	300	-	_			100n	20	67	220						430				92	
BF241	HF	S	N		150	40	40	25	100n	20	36	125	1					400				92	T11
BF257	HF	S	N	5W	175	160	160	100	50n	100	25		30					90				39	TV
BF 258	HF	S	N	5W	175	250	250	100	50n	200	25		30					90				39	TV
BF 259	HF	S	N	5W	175	300	300	100	50n	250	25		30					90				39	TV
BF310	HF	S	N	300	150	30	30	25	60n	20	29		4					580				92	
BF314	HF	S	N	300	150	30	30	25	60n	20,	29		4					450				92	
BF377	HF	S	N	300	150	30	15	25	I0n	15	25	90	2					(GHZ)				92 -	*特 🕄
BF378	HF	S	N	300	150	30	15	25	10n	15	25	90	2					(GHZ)				92 –	特 🗓
BF379	HF	S	Р	300	150	40	25	25	50n	20	80	1	I					350			T	92	_
BF414	HF	S	Р	300	150	40	30	25	60n	20	30	80	-1					400				92	
BF440	HF	S	Р	300	150	40	40	25	100n	20	60	220	1					250				92	
BF441	HF	S	Р	300	150	40	40	25	100n	20	30	125	-1					250				92	
BU105		S	N	10 W	115	750	750	2.5A										7.5			$\neg \uparrow$	3	
		_		12.5W	115	1500	750	5 A										7			-	_	
BU108		S	N	12.5**	110	1 3001	7501	2 M I			- 1					- 1		/ 1		- 1		3	

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		NEO	ULTACIII	MITCHDICHI	MATSUSHITA	FUJITSU	SONY	SANKEN	NOTE
TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MAISUSTIIA	1031130	30111	SAME	110.2
	-00-071		2SD124	2SD26A		_			-
BD675	2SD371		250124	25D26A	-			2SA764	
BD676	2SD371		2SD124	2SD26A			2SD47	2001	
BD677	2\$A658	2SA626	2SB36I	2SB358			2004,	2SA764	
BD678		2SD180	238301	2SD26B			2SD47	2011704	
BD679	2SD371 2SB531	2SA626	2SB361	2SB358	-	2SB432	23047		
BD680	258531	2SA626 2SC851	258361	2SC1020		230432			
BD695		250851	000000	2301020		2SB352			+
BD696	-00	10.	2SB332	2001000		230332	2SD88		
BD697	2SD111			2SC1020	-		2SB518		+
BD698				-	00000		2SD88		+
BD699	2SD111	2SD322	_	_	2SD334	200252	2SB518	2SA744	
BD700	2SA680				200.034	2SB 353 2SC902	2SD88	238744	
BD701	2SD111	2SD322	2SC898	-	2SD334	250902	23088	2SA745	
BD702								25A 145	-
			000000	-			 -	 	+
BF 115	2SC383	2SC1009	2SC907A	-				 	+
BF 167	2SC382		2SC907A						+
BF 173	2SC382		2SC907A	٠			200252		
BF 177	2SC983				_		2SC353		_
BF 178	2SC983							-	+
BF I 79A	2SC983							_	
BF179B	2SC983				-			-	
BF179C	2SC983							-	+
BF184		2SC1044			_	2SC811			+
BF185		2SC1044				2SC811		- 7	
BF 194		2SC899							
BF254		2SC899	-30-				-	-	
BF 195		2SC899		2SC710					
BF 255		2SC899		2SC710			-		
BF196		2SC1187				_			
BF 198		2SC1187					-		-
BF 197		2SC1187							
BF 199		2SC 187							
BF223					2SC1303				_
BF311					2SC1303	•		1	
BF227									
BF228									
BF229									
BF230									
BF240		2SC1188							
BF 241		2SC1188						1	
BF 257	2\$C515		2SC685						
BF258	2SC515		2SC685						
BF 259	2SC515		2SC685						
BF310		2SC1188	2SC684						
BF314		2SC1188	2SC684						
BF377			2SC684		2SC583		1		
BF378		-9.7	2SC684		2SC583				
BF379			2SA548						
BF414			2SA548						
BF440		2SA578							
BF441		2SA578							
BU105	2SC643		2SC937	2SC1153		-			
BU108		2SCI358		2SC1309	2SD300				



SIEMENS

			L	MA	XIMUM	RA	TINGS		Γ''				ELE	CTRICAL	L CHAR	ACTERI	STICS						
TYPE	USE	MATERIAL	POLALITY	Pc	Tj	Vas	V Œ	Ic	lo	190		hre		hfe	hie	hre	hoe	fr	NE	Cob	Co×rbb	OUTLINE	NOTE
		I V	POL	25℃ (m₩)	(0)	(V)	(V)	(mA)	(μ A)	Vos(V)	m in .	max.	Ic(mA)		(Q)	(×10)		*fae **fab (MHz)	(dB)	(pF)	(ps)	TO-	NOTE
AC121	LF	G	Р	900	90	20	20	300	5		30	190	100					1.5	4	27		I	
AC127	LF	G	N	340	90	32	32	500	10		50	100	500	y .				2.5	10	70		- 1	
ACI51r	LF	G	Р	900	90	32	24	200			40	L	200					1.5	. 3	25		- 1	
AC152	LF	G	P.	900	90	32	24	500			75		100					1.5		25		ı	
AC153	LF	G	Р	i W	90	32	18	2 A	10	10	68	173	IA					1.5		100	L	1	AC176CONP
ACI53K	LF	G	Р	I W	90	32	18	2 A	10	10	68	173	I A		_	_		1.5		100	L	. К	口形
AC162	LF	G	P	900	90	32	24	200	10	10	100		50 50			 -		1,7	4	25		1	
AC163	LF P	G	P N	900 I W	90	32	24	200	10 7	10	132	25.0				┼		2.3	4	100			AOIFOOND
ACI76K	P	G	N	I W	90	32	18	I A	7	10	50 50	250 250	300					3		100	-	K	AC153CONP 中形
AC187K	P	G	N	1 W	90	25	15	2 A	7	10	100	500	300			+		5		100	\vdash	K	口形
AC 188K	P	G	P	i w	90	25	15	2 A	20	10	100	500	300			┼		1.5		100	-	K	口形
AD 130	s	G	P	30W	90	32	30	3 A		1	20	40	IA					35 0 KHZ		200		3	
AD 131	S	G	Р	30W	90	64	45	3 A			20	40	IA		-	 		350 KHZ		200		3	_
AD132	S	G	Р	30W	90	80	60	3 A		_	20	40	IA					350 KHZ		200		3	
AD133	S	G	Р	36 W	100	50	20	15A			50	100	5 A					300 KHZ				41	
AD136	S	G	Р	11 W	100	40	20	10 A			75	150	5 A		,-			300 KHZ				8	
AD148	Р	G	P	13.5W	100	32	26	3.5A	1.2 m	10	50	100	ΙA					450 KHZ					
AD149	Р	G	P	27.5W	100	50	30	3.5A			50	100	ΙA					500 KHZ				3	
AD150	Р	G	Р	27.5W	100	32	30	3.5A			50	100	IA					450 KHZ				3	
ADI6I	Р	G	N	4 W	90	32	20	3 A	20	32	50	350	500					3		100		SOT 9	7
ADI 62	Р	G	Р	6 W	90	`32	20	3 A	7	20	175	350	500					1,5		100		SOT 9	
ADI 63	Р	G	Р	30W	90	100	80	3 A			30	60	IA		9			350 KHZ		200		3	
AFI06	MIX	G	P	60	90	25	18	10	0.5	12	70		2	65				220	5.5		6	72	
AFI09R	AGC	G	P P	60	90	20	15	10	0.5	20	55		2				_		4	1.5	_	72	
AF 139 AF 200	MIX	G	P	60 225	90	20 25	15 25	10	0.5	20 12	55 85		3	150	<u> </u>	-		550	7.5		3 6	72 72	
AF201	HF	G	P	225	90	25	25	10	0.5	12	85		3	150							6	. 72	- 20
AF200U	HF	G	P	60	90	25	25	10	0.5	12	85		3	150							6	72	
AF2GIU	HF	G	P	60	90	25	25	10	0.5	12	85		3	150							6	72	
AF202	HF	G	P	225	90	25	25	30	0.4	12	85		3	150							6	72	
AF202S	HF	G	Р	225	90	32	32	30	0.4	12	85		3	150					•		6	72	
AF 239	UHF	G	Р	60	90	20	15	10			50		2					700	5			72	
AF239S	osc	G	Р	60	90	20	15	10			50		2					78,0	5			72	-
AF240	HF	G	Р	60	90	20	15	10			25		2					500	6.5			72	
AF 279	UHF	G	Р	60	90	20	15	10			50		2					780	5			50	
AF280	UHF	G	Р	60	90	20	15	10			25		2					550	7			50	
BC107	AF	S	N	300	175	50	45	200			380	800	2					250				18	
BC108	AF	S	N	300	175	30	20	200			380	800	2					250				18	
BC109	AF	S	N	300	175	30	20	50	105		380	800	2					300				18	
BC110	AF	S	N	3 00 250	175	80 5	80	50	100 n	80	90	600	2		<u> </u>			100		5	Щ	18	
BC121	AF AF	S	N	250	150 150	30	5 20	75 75	IOn IOn	2 15	125	620 620	10					250 250	2.5	4.4 3.5		U32PI U32PI	*
BC122	AF	S	N.	250	150	45	30	75	IOn	25	125	620	10			\vdash		250	2.5	3.5	-	U32PI	
BC123	AF	S	N	3.7W	175	80	40	IA	1011	43	63	160	100					50	2.3	25		39 39	
BC140	AF	S	N	3.7W	175	100	60	IA	-	-	63	160	100			\vdash	-	50		25	100	39	
BC147	AF	S	N	300	175	50	45	200	-	,	180	460	2			\vdash		250				- 55	
BCI48	AF	S	N	300	175	30	20	200			180	460	2			\vdash		250	-+				
BC149	AF	S	N	300	175	30	20	50		\neg	380	800	2				\neg	300					
BC157	AF	S	Р	300	150	50	45	200			170	290	2					130	10	6		90T 25	
BÇ158	AF	S	Р	300	150	30	25	200			170	500	2				,	130	10	6		SOT 25	
BC159	AF	S	Р	300	150	25	20	50			170	500	2					130	4	6			-
BC160	AF	S	Р	3.7W	175	40	40	ΙA			63	160	100	,				50		30		39	•
BC161	AF	S	Р	3.7W	175	60	60	ΙA			63	160	100					50		30		39	
BC167	AF	S	Ν	300	150	50	45	200			170	290	2					250	2	45		92	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
AC121	2SA594			<u> </u>	2SA374				
AC127	2SC366		2SC 1213						
AC151r	2SA594			·	2SA374				
AC152	2SA504								
AC 153		2SB504		2SB495				,	
AC 153K		2SB504		2SB495					
AC162		2SB504		2SB495					+
AC163	'	2SB504 3	4	2SB495					
AC176		2SC1266				2SC1069			ļ.
AC176K		2SC1266		-000		2SC1069			
AC187K				2SC778					
AC188K		2SA633		000120	2SA699			2\$B507	
AD 130	2SB503	2SB107A		2SB138	2SB126			238507	+
AD131	2SB503				2SB128				+
AD 132	2SB502				2SB128				+
AD 133	2SB124	-	20005	-				-	+
AD136	2SB296		2SB85 .	+	200512			2\$B216	+
AD148	2SB503		 	+	2SB513 2SB513			230210	+
AD149	2SB503			-				,	+
AD150	2SB503			+	2SB513 2SC585	2SC592		· ·	-
ADI6I	2SC490	-	20000		250585	250592			
ADI62	2SB502		2SB83						+
ADI63	2SB64			-	2SA249	2SA113			-
AFI06	2SA494	2SA244	00.404	-	23A249	2SA113		+	
AFI09R	2SA495		2SA84 2SA84			23K113			
AF139	2SA495 2SA495		2SA84 2SA86						+
AF200			2SA86	1					
AF201	2SA495		2SA86 2SA84		2SA100			+	_
AF200U	2SA495 2SA495		2SA84		2SA100				+
AF 201U	2SA495 2SA495	2SA244	23A04		23A100				_
AF202 AF202S	2SA495 2SA494	2SA244 2SA244			2SA249	2SA113		1	
AF2023 AF239	238434	2SA244 2SA244	2SA390		2SA310	20/110			
AF239S		2SA244 2SA244	2SA390		2SA310		-		+
AF240	-	2SA244	2SA390	 - '	2SA310				_
AF279	-	2SA244	2SA390		2SA310				
AF 280		2SA244 2SA244	2SA389		2SA310	_			
BC107	2S C 559	EGAL44	207303		20,1010	2SC565			
BC107	2SC559	-	+			2SC565			
BC108	10000		2SC154		2SC538A	2SC565	[84]		
BC110				2SC307		_			
BC110	2SC732			2SC711		_	· ·		
BC122	2SC732	1		280711					
BC123	2SC734			2SC711					
BC140	2SC523			2SC1018	1				
BC141	2SC524	+			 				
BC147	2SC503		 						
BC148	2SC504	1	8		1				
BC149	2SC504			_					
BCI57	2SA503	1	1						
BC158	2SA504				1				
BC159	2SA504								
BC160	2SB462					2 SB 445			
BC161	2SB462					2 SB446			
BC167	2\$B503			2SC871					

SIEMENS

		1 ×	2	MA	XIMUM	RA	TINGS						ELE	CTRICAL	. CHAR	CTERI	STICS					Q171 W	
TYPE	USE	MATERIAL	POLALITY	Pc 25°C	Tj (T)	Vas	Vœ	lc	ła	_		hre		hfe	hie (Ω)	hre (×10)	hoe (μδ)	fr *fae **fap	NF	Cob	Coxitib	OUTLINE TO-	NOTE
DOLCO	45			(mW)		(V)	(V)	(mA)	(μA)	Vos(V)	min.	max.	Ic(mA)		(2)	(XIU)	(μ0)	(MHz)	(dB)	(pF)	(ps)	- 00	
BC168	AF	S	N	300	150		20	100			170	500	2					250	2	4.5		92	
BC169	AF	S	N	300	150	30	20	50		<u> </u>	290	500	2					300	4	4.5		92	
BC177	AF	S	Р	300	175	50	45	100			170	290	2					130	10	4.5		18	
BC178	AF	S	Р	300	175	. 30	25	100			170	500	2					130	10	4.5		18	
BC179	AF	S	Р	300	175	* 25	20	50			170	500	2					130	4	4.5		18	
BC182	AF	S	N	300	150	60	50	200	15 n	50	170	290	2					150	2	2.5	7.	92	*
BC201	AF	S	Р	250	150	5	5	75	2 n	2	75	290	0.2					200	2.5	5.4		U32PI	
BC202	AF	S	Р	250	150	30	20	75	2 n	15	75	175	0.2					200	2.5	3.5		U32PI	
BC203	AF	S	Р	250	150	45	30	75	2 n	25	75	175	0.2					200	2.5	3.5	1	U32PI	
BC2 2	AF	S	Ρ	300	150	.60	50	200	15 n	30	170	290	2					200	2	4		92	*
BC237	AF	S	N	300	150	• 50	45	100			170	290	2					250	2	4.5		92	
BC238	AF	S	N	300	150	. 30	20	100			170	500	2					250	2	4.5		92	
BC239	AF	S	N	300	150	30	20	50			170	500	2					300	4	4.5		92	
BC257	AF	S	Р	300	150	• 50	45	100			170	290	2					130	10	6		92	
BC258	AF	S	Р	300	150	.30	25	100			170	500	2					130	10	6		92	
BC259	AF	S	Р	300	150	• 25	20	50			170	500	2				_	130	4	6		92	
BC307	AF	S	Р	300	150		45	100			170	290	2					130	10	6		92	
BC308	AF	S	Р	300	150		25	100			170	290	- 2					130	10	6		92	
BC309	AF	S	P	300	150		20	50			290	500	2			\vdash		130	4	6		92	
BC327	AF	S	P	1.4 W	150		45	800			160	400	100					100		12		90T 30	
BC328	AF	S	P	1.4W	150		25	800			160	400	100					100		12		90 90 30	
BC337	AF	S	N	1.4W	150		45	800			100	400	100					100		12		90 90T 30	
BC338	AF	3	N	1.4W	150		25	800	_		100	400	100					100		12		30 S07 30	•
BC413	AF	S	N	300	150	45		100	15 n	30	290	500	2					250	2.5	2.5		92	
BC414	AF	S	N	300	150	50	30 45	100	15 n	30	290	500	2					250	2.5	2.5			
BC414		S	P	300	150		35	-					2					$\overline{}$				92	
BC415	AF AF	S	P	300	150	45 50	45	100	15 n	30 30	170	500 500	2			\vdash		200	2	4.5		92 92	lowno lowno
BC410	AF	3	Г	300	130	50	45	100	15 n	30	1 /0	300						200		4.5		32	e lowdor
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DD 100	0.00	_		10 514	176	- 00		2.4										00		25		907	
BD109	SW	S	-	18.5W		60	40	3 A	10n	40	63	160	I A					30		35		Sor	
BD130	P	S	N	100W	200	100	60	15A			20	70	4 A					1.1				3	
BD135	AF	S	N	12.5W	150	45	45	1.5A	100 n	30	63	1,60	500					50				SOT 32	
BD136	AF	S	Ρ	12.5W	150	45	45	1.5A	100 n	30	63	160	500					75				SOT 32	
BD137	AF	S	_	12.5₩	150	60	60	1.5A	100 n	30	63	100	500					50				SOT 32	
BD138	AF	S	Ρ	12.5W	150	60	60	1.5A	100 n	30	63	001	500					75				SOT 32	
BD139	AF	S	N	12.5W	150	\square	80	1.5A	100n	30	63	100	500					50				S0T 32	•
BD140	AF	S	Р	12.5W	150		80	1.5A	100n	30	63	100	500					75				SOT 32	•
BD148	Р	S	N	31 W	200	60	40	4 A			63	160	500			Ш		ŧ				66	•
BD149	AF	S	N	31 W	200	80	60	4 A			63	100	500					- 1				66	•
BD233	Р	S	Z	25 W	150	45	45	2 A	100	45	40		150					3		60		SOT 32	•
BD234	Р	S	Р	25 W	150	45	45	2 A	100	45	40		150					3		60		90T 32	•
BD235	Р	S	N	25 W	150	60	60	2 A	100	60	40		150					3		60		SOT 32	•
BD236	Р	S	Р	25 W	150	60	60	2 A	100	100	40		150					3		60		SOT 32	
BD237	Р	S	N	25W	150	100	80	2 A	100	1.00	40		150					3	-	60		SOT 32	
BD238	Р	S	Р	25W	150	100	80		100	100	40		150					3		60		SOT 32	_
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TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
BC168		2SC764		2SC871	-	2SC727	_		
BC169		2SC764				2SC727		·	
BC177		2SA603			2SA550A				
BCI78	_	2SA603			2SA550A				
BC179					2SA666				
BC182				2SC446		100			
BC20I	2SA522		2SA373		2SA550				
BC202		. 2SA710			2S A550A				
BC203		2SA710			1				
BC212	'	2SA712							
BC237			2SC111			2SC136			
BC238	2SC74					2SC134			
BC239	2SC103A					2SCI72A			
BC257	2S A 56 I	2SA710		2SA697					
BC258	2SA561	2SA710		2SA696					
BC259	2SA562			2SA 696					- 0
BC307		2SA710		2SA697					
BC308		2SA710		2S A 696					
BC309	2SA502								
BC327		2SA614		2SB526	2SA752				
BC328		2S A614		2SB526	2SA752				
BC337	·	2SC781		2SC777		2SC798		· ·	
BC338		2SC781		2SC777		2SC798			
BC413	2SC734	2SC896							
BC414	2SC734	2 SC896							
BC415	2SA561	2SA718	- 3						
BC416	2SA561	2SA718							_
BD109	2SC493	_		2SD58			2SD29	-	+
BD130	2SD113					2SD232		+	+
BD135				2SD58			2SD29	000514	+
BD136					2SB512			2SB514	+
BD137	2SC490					· -		-	
BD138	2SB503	2SB505			2SB512				
BD139	2SD102		2SC1055						
BD140	2 SB 502		_						
BD148	2SD107							2SD315	
BD149	2SD107	2SD180			1			205212	
BD233	2SD103	2SD285		(2)	1			2SD313	
BD234	2SB434				2SB512		1	2SB507	
BD235	2SD130	2SD285	1	_		•		2SD313	+ '
BD236	2SB531			9					
BD237		2SD285				2SC1031		2SD61	
BD238	2SB530	2SB506		2SD59		2SB432	-	2SB491	
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-						_			

		¥	2	MA	XIMUM	RA	TINGS						ELE	CTRICAL	CHAR	ACTERIS	STICS					OUTLINE	
TYPE	USE	MATERIAL	POLALITY	Pc 25°C	Tj (T)	Vos (V)	V ₀₈₀ (V)	Ic (mA)	lα (μ A)	_	min.	hre	Ic(mA)	hfe	hie (Ω)	hre (×10)	hoe (μδ)	fT +fae ++fab (MU=)	NF (dB)	Cob (pF)	Coxrbb [*] (ps)	TO-	NOT
BFIII	HF	_	N	(m\)	175		200	80	(μη)	-10(1)	20	Max.	60			+		(MHz) 120	/	1.8	100	39	-
3F167	HF	S		130	175	40	30	25			20		30					350	3	0.15		39	
3F173	HF	S	N	260	175	40	25	25			-					-		550		0.23		39	
3F177	HF	S	N	2.9W	175	100	100	40	200 n	100	20		15			1		120			100	39	
3F178	HF	\$	N	2.9W	175	160	185	50	200 n	160	20	_	30					120			100	39	
3F179A	HF	S	N	2.9W	175	160	185	50	200 n	160	20		20				_	120		1.3	100	39	
3F 179B	HF	S	N	2.9W	175	220	220	50	200 n	160	20		20					120		1.3	100	39	
3F179C	HF	S	N	2.9W	175	250	250	50	200 n	160	20		20					120		1.3	100	39	
3F 194	HF	S	N	220	125	30	20	30			115		- 1					260	1.5			25	
3F195	HF	S	N	220	125	30	20	30			67							200	3.5			25	
3F 198	HF	S	N	500	150	40	30	25	100n	40	70		4			Ш		400	3	0.22		92	*
3F199	HF	S	N	500	150	40	25	25	100 n	40	85		7					550		0.32	<u> </u>	92	*
3F240	HF	S	N	250	150	40	40	25	100n	20								400	1.7			92	*
3F241	HF	S	N	250	150	40	40	25	100 n	20			.			\vdash		400	1.7			92	*
3F 254	HF	S	N	220	120	30	20	30			115		!		<u> </u>	\vdash		260	1.5	-		92 92	
F 255	HF	S	N	220	120	30	160	30	Enr	100	67 25		30			\vdash		200 90	3.5	4.2		39	-
F 257 F 258	AF AF	S	N	5 W	175	160 250	250	100	50 n - 50 n	200	25		30		ļ	-		90		4.2		39	
F 259	AF	S	N	5 W	175	300	300	100	50 n	250	25		30			+		90		4.2	\vdash	39	•
F310	HF	S	N	300	150	30	300	25	60 n	20	23		30			\vdash		580		7.2		SQT 30	*
F314	HF	S	N	300	150	30	30	25	60 n	20						+		580	2		١.	30 SOT 30	*
3F324	HF	S	_	250	150	30	30	25	50 n		50		4			+		440	3			SOT 30	
3F450	HF		P	150	125	40	40	25	50 n	30	60		1			†		375	2			SOT 30	*
3F451	HF	S	Р	150	125	40	40	25	50 n	30	30		1	· · ·		1		325	2			S07 30	*
3F457	AF	S	N	1.2W	150	160	160	100	50 n	100	25		30					90				SOT 32	
3F458	ĄF	S	N	1.2W	150	250	250	100	50 n	200	25		30					90				SOT 32	* -
3F459	AF	S	N	1.2W	150	300	300	100	50 n	250	25		30					90				SOT 32	*
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BUIIO	SW	S	N	60W	175	330	150	10A			5	-	7 A			\vdash		25				3	
30111	SW	S	N	50W	150	400	300	6 A			5		3 A			\vdash		20		-		3	
3UI 14	SW		N	50 W	150	_		6A	\vdash		5		3 A	-				20				3	* \
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TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
BFIII	2SC996			<u> </u>			`-		
BF 167	2SC997								
BF 173		2SC1006							
BF177	2SC996		2SC685						
BF 178	2SC996		2SC685						
BF 179A	2SC996		2SC685						
BF I 79B	2SC996		2SC685						
BF179C	2S C 996		2SC685				_		
BF 194	2SC1000								
BF195	2SC997								
BF198						2SC969			
BF199						2SC969	_		
BF240	2SC383			2SC773		2SC965			
BF241	2SC383			2SC773		2SC965			
BF254	2SC383			2SC773		2SC965			
BF 255	2SC383			2SC773		2SC965			
BF 257	2SC515								
BF258	2SC515								
BF 259	2SC515								
BF310	2SC377								
BF314	2SC377								
BF324		2SA206							
BF450		2SA207							
BF451		2SA205							
BF457	2SC996		2SC685						
BF458	2SC996		2SC685						_
BF459	2SC996		2SC685		-				
	-								
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BUIIO						2SC1230	2SC807		
BUILL						2SC1230			
BUI 14		2SD153	2SC681A	2SC771	2SD321	2SC1229			
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TYPE	USE	MATERIAL	POLALITY	Pc 25°C	Tj (*c)	Vcs (V)	Vceo (V)	lc (mA)	lca (hre		ate	hie (Ω)	hre (×10)	hoe (μ℧)	*fae **fae (MHz)	NF (dB)	Cob (pF)	Coxrbb'	TO.	NOTE
		_		(m₩)	-				(μ A)	V(ce(V)	min.		Ic(mA)					(MHz)			(μs)		
BC113	Α	S	N	200	125	30	25	-	0.5	20	200	1000	1.0	400	-	4.2	20	-	2.5	2.7		18	
BC114	A	S	N	200	125	30	25		0.5	20	200	1000	1.0	400	IOK	4.2	20		1.5	2.7		18	
BC115	Α	S	N	300	125	40	30	200	_	20	100	400	10							25		5	
BC116A	A	S	P	300	125	45	40		0.05	20	80	240	150	70				130		10		5	
BC119	Α	S	N	800	200	60	30		0.05	40	40	120	150	2.0						25	-	5	
BC139	Α	S	Р	700	200	40	40	500	0.05	30	40		100									5	
BC125	Α	S	N	240	125	50	30		0.05	20	30		50	2.0						25		5	
BC126	А	S	Р	240	125	35	30	600	0.05	20	30	120	150									5	
BCI40	Α	S	N	650	175		40	1000			40	400	100					50				5	
BC141	A	S	N	650	175		60	1000			40	400	100					50				5	
BC142	Α	S	N	800	200	80	60	1000	0.05	40	20		200									5	
BC143	Α	S	Р	800	200	60	60	1000	0.05	30	20		300									5	
BC153	А	S	Р	200	125	40	40	100	0.05	30	50		0.1									18	
BC154	А	S	Р	200	125	40	40	100	0.05	30	160		0.1						2.5			18	
BC160	A	S	N	650	175		40	1000			40	400	100					50				5	
BC161	Α	S	P	650	175		60	1000			-	400	100					50				5	
BC204VI	A	S	Р	200	125	50	45		0.05	45	50.	120	2						10			18	
BC204A	Α	S	P	200	125	50	45		0.05	45	110	-	2						10			18	
BC204B	A	S	P	200	125	50	45		0.05	45	200	_	2						10			18	
BC205A	A	S	P	200	125	25	20		0.05	20	110	220	2				-		10			18	
BC205B	A	s	P	200	125	25	20		0.05	20	200	_	2						10		1	18	-
BC205C	A	S	P	200	125	25	20		0.05	20	400	-	2			-	_		10			18	
BC206B	A	S	P	200	125	25	20		0.05	20	200	-	2					1	4		-	18	
BC206C	A	S	P	200	125	25	20		0.05	20	400	-	2		-			-	4	-	-	18	
BC207A	A	S	N	200	125	50	45	100	0.015	40	110	-	2				-	-	10	6	-	18	
BC207A	A	S	N	200	125	50	45	-	0.015	40	_	450	2		-	-	-		10	6	-	18	
BC207B	A	S	N	200	125	25	25	-	0.015	-	110	+ -	2				-	-	10	6	+-	18	-
BC208B	A	S	N	200	125	25	25	-	0.015	20		450	2			-		+	10	6	+	18	
BC208C	A	S	N	200	125	25	25	_	0.015	20	420	-	2				-	+	10	6	-	18	
-	d	S	-	200	-	-	-	-	_	20	200	-	2					-	4	6	+	18	
BC209B	A	-	N		125	25	25	_	0.015	-	-	-	2		-	-	-	1	4	6	-	18	
BC209C	A	S	N	200	125	25	25	-	0.015	20	+	800	-			-	-		4	0	-	18	-
BC225	A	S	P	200	125	40	40	-	0.05	30	90	+	0.1	25		-	-		-	12	+-	5	
BC286	A	S	N	800	200	70	60	-	0.02	30	-	180	-	25		-	-	-	-	-	+		_
BC287	A	S	N	800	200	60	60	_	0.05	30	4-	200	-	75	-	-	-	-	-	20	-	5	
BC317A	A	S	N	625	150	50	45	-	0.03	20	110	-	2	300	-	-		-	6	4	+	92	_
BC318A	A	S	N	625	150	45	30	_	0.03	20		220	2	450		-	-	-	6	4	-	92	
BC317B	A	S	N	625	150	-	45	-	0.03	20	200	_	2	300		-	-	-	6	4	+	92	
BC318B	A	S	N	625	150	45	30	-	0.03	20	200	+	2	450			-	-	6	4		92	
BC318C	A	S	-	625	150	45	30	-	0.03	20	-	800	2	500				-	6	4	-	92	
BC319B	A	S	-	625	150	-	20	-	0.03	20	_	450	2	500			-		4	4	+	92	-
BC319C	A	S	N	625	150	-	20	-	0.03	20	+	800	2	500		_	-	+-	4	4		92	
BC320A	A	S	-	625	150	50	45	-	0.03	20	-	220	2	300					6	4	-	92	
BC320B	A	S	-	625	150	50	45	-	0.03	20	+	450	2	300					6	4		92	
BC321A	A	S	+-	625	150	45	30	-	0.03	20		220	2	500				-	6	4		92	
BC321B	Α	S	P	625	150	45	30	-	0.03	20	200	+	2	500					6	4		92	
BC321C	Α	S	P	625	150	45	30	150	0.03	20	400	800	2	500			-		6	4		92	
BC322B	A	S	P	625	150	30	20	50	0.03	20	200	450	2	600					4	4		92	
BC322C	A	S	P	625	150	30	20	50	0.03	20	400	800	2	600					4	4		92	
BC323	A	S	N	7W	200	100	60	5A	100	100	45	225	50	5						80		5	
BC520	A	S	N	625	150	60	60	50	0.002	45	180	800	10	600	8.5K	7	24		6			92	
BC521	A	S	+	625	150	-	45		0.002	_	380	-	-	1300	28K	23	74		8	1	1	92	
BC520B	A	s	-	625	150	60	60	50	1.002	45	180	460	10	600	8.5K	7	24		8	1		92	
BC520C	A	S	-	625	150	-	60	-	0.002	-	380	-	_	600	_	+	24		8			92	
BC521C	A	S	-	625	150	-	45	-	0.002	+	380	-	+	1300	28K	23	74	1-	8	1	1	92	
BC521B	A	s	_	625	150	-	45	-	0.002	4	_	1550	_	1300	+	23	74	1	8	1	_	92	-

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISH	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
BC 113			2SC 350				2SC 631 A	2SC693	1
BC 14			2 SC 350				2SC631A	2SC693	
BC 115		2SC 32	2SC110	2SC 306		2SC 202			
BC I I 6 A	2SA661	2SA545	200110	2SA697					
BC 119	2SC 486								1
BC 139	2SA486	1	2SA743						
BC 125	2SC 1626	2SC 596	-			2SC 596			
BC 126	2SA682	2		2SA697				-1	-
BC 140	2SC524			2011001					+
BC 141	2SC524			-					
BC 142	2SC516								1
BC 143	2SA681			-			1		_
BC 153			1				2SA705		1
BC 154				- 1.			2SA705		
BC 160	2SA512								
BC 161	2SA512								
BC 204 V I		1	2SA672				1		
BC 204 A			2SA672						1
BC 204B			2SA672						1
BC 205 A			20.1072		2SA666				-
BC 205 B					2SA666				
BC 205C					2SA666				
BC 206 B					2SA666				+
BC 206C					2SA666			-	+
BC 207 A	2SC 1000		 	+	254000		 		+
BC 207B	2SC 1000						1		+
BC 208 A	2301000		2SC 350					-	13
BC 208 B			2SC 350	1			-		-
BC208C		-	2SC 350						+
BC 209 B		_	2 SC 350	-					-
BC 209C		-	2SC 350			_			
BC 225			250350				2SA705		-
BC 286		2SC 1098		-			23A703		_
BC 287		2SA 636		1					+
BC 317 A		23A636		-		2SC 969	-		-
BC317A				-					-
BC318A				-	-	2SC 969			-
				-		2SC 969	-		-
BC318B BC318C						250 969			-
						2SC 969			-
BC319B				-		2SC 969			
BC 319C BC 320 A						2SC 969			
BC 320 A		-	-	-					
BC 320 B			-				2 C A 705		-
			-	-			2SA705		-
BC 32 B							2SA705		
BC 321 C				004705	004774		-	004701	-
BC 322B				2SA725	2SA774			2SA701	-
BC 322C	200,400		-	2SA725	2SA774 .		200:0	2SA701	
BC 323	2SC 492					*****	2SC 43		
BC 520						2SC 969			
BC 521					1	2SC 969			
BC 520 B						2SC 969			-
BC 520 C		-				2SC 969	•		-
BC 521C	-					2SC 969			-
BC521D						2SC 969			

		₹	≿	-	XIMUN	A RA	ATINGS						EL	CTRICA	L CHAR	ACTER	SHUS	1 (-			1	OUTLINE	
TYPE	USE	MATERI	POLALITY	Pc 25°C	Ti (°C)	Vcs (V)	VCEO (V)	lc (mA)	lcs (μA)	Vos(V)	min.	hfE	Ic(mA)	hfe	hie (Ω)	hre (×10)	hoe (μg)	ft *fae **fao (MHz)	NF (dB)	Cob (pF)	Coxrbb'	то.	NOTE
10000				(mW)						_	400	max. 800	2.0			-		(MHZ)	3.0		-	92	
BC522C	Α	S	N	625	150	20	20	50	10n	20	-	-				+			3.0		-	92	
3C522D	Α	S	N	625	150	20	20	50	10n	20	750	_	2.0	-		-	_	_				92	
3C522E	Α	S	N	625	150	20	20	50	10n	20	-	2200	-			+-			3.0		-	-	
3C523B	Α	S	N	625	150	45	45	50	2n	45	180	400	2.0	100		-					-	92	
3C523C	.А	S	Ν	625	150	45	45	50	2n	45	380	800	2.0	100							-	92	
BC526A	A	S	Р	625	150	60	50	200	15n	30	60	-	2.0	300		-			10.0	5.0	-	92	
3C526B	Α	S	Р	625	150	60	50	200	15n	30	60	800	2.0	200/400					4.0	5.0		92	
3C526C	Α	S	Р	625	150	60	50	200	15n	30	60	800	2.0	350/600					4.0	5.0	-	92	
BC527	Α	S	P	625	150	60	60	1000	100n	40	40	400	100	1.0						15	-	92	
BC528	Α	S	Р	625	150	80	80	1000	100n	60	40	400	100	1.0						15		92	
BC530	Α	S	Р	625	150	130	120	100	100	100	40	180	10	200				50		6		92	
BC531	Α	S	Р	625	150	160	150	100	50	120	60	240	10	200				50		6		92	
BC532	Α	S	N	625	150	160	140	100	100	100	60	250	10	200				50	10	6		92	
3C533	A	S	N	625	150	180	160	100	50	120	40	250	10	200				50	8	6		92	
BC534	Α	S	Р	625	150	80	80	500	0.1	80	50		10			1		50				92	
BC535	A	S	N	625	150	80	80	500	0.1	80	50		10					50				92	
BC537	A	S	N	625	150	60	60	1000	0.1	40		400	100	1.0		1		T		15		92	
BC538	A	S	Z	625	150	80	80	1000	IOn	60		400	100	1.0	-	+		1		15	1	92	
BC727	A	S	P	625	150	50	40	1000	0.1	40		630	100	2.0		_		-		20	1	92	
BC728	A	S	N	625	150	30	25	1000	10n	25	63	+	100	2.0	-	+	_			20		92	
		_	P			50	40	1000	0.1	40	63	_	100	2.0	-	-		-	-	20	-	92	
BC737	A	S	-	625	150	-	-	-		-	-	+ -	-		-	-		-		20	+	92	
BC738	A	S	N	625	150	30	25	1000	10n	25	+-	630	-	2.0		+	-	-	-	20	100	5	
BD115	A	S	N	875	200	245	180	150		-	22		50			+-	-			-	100	-	
BD220	Р	S	Ν	36W	150	80	7.0	4A		-	30	-			-	-	_	0.8	-	-	+	220	
BD221	Р	S	N	36W	150	60	5.0	4A			30							0.8		-	-	220	
BD222	Р	S	N	36W	150	80	5.0	4A			20	-	-			-	-	0.8	-	-	1_	220	
BD223	Р	S	P	36W	150	80	7.0	4A			30	120	-	0.		1		0.8	-	-	-	220	
BD224	Р	S	Р	36W	150	60	5.0	4A			30	120	1000					0.8				220	
BD225	Р	S	Р	36W	150	80	5.0	4A			20	80	1.5A					0.8				220	
BF 167	Α	S	N	150	175	40	30	25		1	30	60	4.0	6.0								18	
SE5040	A	S	N	175	175	30	30	25	5 0 n	20	20	220	4.0	5.0					2.7			18	
BF222	Α	S	N	175	175	50	50		1000	10	20	60	2.0	4.0					2.0			18	
BF257		S	N	1000	175	160	160	100	50n	100	25		30					75				5	
BF258		S	N	1000	175	250	250	100	50n	200	25		30					75				5	
BF259		S	N	1000	175	300	300	100	50n	250	_	+	30					75				5	
BF336.	-	s	N	1000	200	185	185	100		1	20	-	30			-		50				5	
BF337	-	S	N	1000	200	250	250	100		-	20	-	30	-	<u> </u>	+		50				5	
	-	S	-	1000	200	300	300	100		1	20	+	30	_	-	+-	-	50		-	+	5	
BF338 BFX34	Р	S	N	5W	200	120	60	100		-	40	-	-	5.0		+	-	+ 30	-	40	+	5	
	-	S	P	360	200	60	60	50		-	70	+		2.0	-	+	-	+	3.0	-	-	18	
BFX37	A		P	800	200	55	_	1000	50n	40	+		100	1.0	+	+-		-	3.0	20	+	5	-
BFX38	A	S	P		-	-	55	+	50n	40	-	+	100	_	-	-		+	-	20	-	5	
BF X39	A	S	_	800	200	55	55	-	_	-	-	+		1.0	-	-	-	+	+	-		5	
BFX40	A	S	P	800	200	75	75	1000	50n	50	+	+	100	1.0	-	-	+-	+	-	20	-	_	
BFX41	Α	S	P	800	200	75	75	1000	50n	50	-	-	100	1.0	-	-	-		-	20	-	5	
BFY50	AS	S	N	800	200	80	35	1000	50	60	-	-	10	10	-	1	-	60	-		_	5	
BFY51	AS	S	N	800	200	60	30	1000	50	40	+-	-	10	30	-	-	-	50		-	-	5	
BFY52	AS	S	N	800	200	40	-	1000	50	30	+	-	10	30			-	50	-	-	-	5	
BFY56	AS	S	N	800	200	80	45		50n	50	_	+	0.1	2.0			1	1	-	25		5	
BFY64	AS	S	P	700	200	40	40				80	_	10	2.0						10		5	
BSX32	S	S	N	800	200	65	40	1000	4.0	50	60	150	100	3.0						10		5	
FQ3467		S	P	500	200		40		1.0	25	40)	150	2.0								86	QUA
FPQ3467		S	P	200	150		40		1.0	25	-	+	150	2.0								86	QUA
FQ3468		S	P	500	200		50		1.0	25	-	+	150	2.0								86	QUA
FPQ3468	1	S	P	200	150		50	+	1.0	25	-	+	150	2.0								86	QUA
FPQ3724	-	s	N	2W	150	1	40	_	1.7	40	-	_	100	2.0						1		116	QUA

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
BC 522 C	2SC 364			· ·	2SC 1478				
BC 522D					2SC1478				
BC 522 E					2SC 1478				
BC523B									
BC 523C									
BC 526 A		2SA539	2SA 672				2SA678		
BC 526B		2SA539	2SA672				2SA678		
BC 526C		2SA539	2SA672				2SA678		
BC 527	2SA513								
BC 528	2SA682						1		
BC 530		2SA712							
BC 531		2SA712							
BC 532	2SC95	2SC49		2SC 310					
BC 533	2 SC 507	2SC 103							
BC 534	2SA497	2SA606							
BC 535	2SC512					2SC212			
BC 537	2SC513								
BC 538	2SC 382								
BC 727	2SA486								
BC 728						2SC 354			
BC 737	2SA48								
BC 738						2 SC 354			
BD115	2SC1168	2SC 1356						2SC 1235	
BD220							2SC 756		
BD221							2SC 756		
BD222							2SC 756		
BD223	2SB556						2SB518		
BD224	2SB556						2SB518		
BD225	2SB556						2SB518		
BF167			2SC 167					2SC 536	
SE5040			2SC 167					2SC536	
BF 222			2SC 167					2SC 536	
BF 257				2SC818					
BF 258	2SC 996								
BF 259	2SC 996								
BF 336	2SC 996								
BF 337	2SC 996								
BF338	2SC 996								
BFX34						2SD413			
BFX37					2SA722				
BF38	2SA516								
BFX 39	2SA516								
BFX40	2SA516								
BFX41	2SA516								
BFY50						2SC 229			
BFY51						2SC 229			
BFY52						2SC 229			
BFY56							2SC 125		
BFY64		2SA552							
BSX32						2SC 229			
FQ 3467									
FPQ 3467									
FQ 3468									
FPQ 3468									
FPQ3724									

		₹	2	М	AXIMUI	M R	ATING	S			_		EL	ECTRICA	L CHAR	ACTERI	STICS					OUTLINE	
TYPE	USE	MATERIAL	POLALITY	Pc 25°C	Tj (°C)	Vca (V)	VCEO (V)	(mA)	lce			hre	. (.)	hfe	hie (Ω)	hre (×10)	hoe (µg)	fr *fae **fab (MHz)	NF (dB)	Cob (pF)	Coxrbb'	TO.	NOTE
				(mW)		(*)			(µA)	Vos(V)	min	max	Ic(mA)		(22)	(~10)	(μ0)	(MHz)	(ub)	(14)	(μο)		01145
FPQ3725		S	N	2W	150		50	10	1,7	40	50		100	2.0		_		_			_	116	QUAL
FQ3724		S	N	500	200		40	10	1.7	40	50		100	2.0		_					1	86	QUAI
FQ3725		S	N	500	200		50	10	1.7	40	50		100	2.0								86	QUA
MD918	Α	S	N	300	200	30	15	50	0.1	15	50		.01					600	6.0	1.7		5	DUAL
MD2218	Α	S	N	500	200	60	30	600			40	120	150					200		8.0	Ļ.,	5	DUAL
MD2218A	Α	S	N	500	200	75	40	600			40	120	150					250		8.0		5	DUAL
MD2219	A	S	N	500	200	30	60	600			100	300	150					250		8.0		5	DUAL
MD2219A	Α	S	N	500	200	75	40	600			100	300	150					300		8.0		5	DUAL
MD2369	S	S	N	500	200	40	15	500	30 n	20	40	140	10					500		4.0		5	DUAL
MD2904	S	S	P	500	200	60	· 40	600			40	120	150					200		8.0		5	DŲAI
MD2904A	S	S	P	500	200	60	60	600			40	120	150					200		8.0		5	DUA
MD2905	S	S	P	500	200	60	40	600			100	300	150					200		8.0		5	DUA
MD2905A	S	S	P	500	200	60	60	600			100	300	150					200		8.0		5	DUA
MD3250	A/S	S	P	500	200	50	40	50	I On	50	50	150	1.0	125	3.5	10	22	200	4.0	6.0		5	.DUA
MD3251	A/S	S	P	500	200	50	40	50	I On	50	100	300	1.0	250	7.0	20	35	250	3.0	6.0		5	DUA
MPS2711	Р	S	N	625	150	18	18	100	0.5	18	30	90	4.5	75						4.0		92	
MPS2712	P	S	N	625	150	18	18	100	0.5	18	75	-	2.0	140		1				4.0	1	92	
MPS2923	A	S	N	625	150	25	25	100	0.5	25	 	-23	0	135		1				12		92	
MPS2924	A	S	N	625	150	25	25	100	0.5	25	_		-	225	-	1		-	-	12	1	92	
MPS2925	A	S	N	625	150	25	25	100	0.5	25		-		350		+-				12	-	92	
MPS2926	A	S	N	625	150	18	18	100	0.5	18	-			250					i	3.5	1	92	
	-	-	-		_	_	_			-	-			360		-				3.5	+	92	
MPS3721	A	S	N	625	150	18	18	100	0.5	18	150	200	0.0	_		+-		-		3.5	-	92	
MPS3392	Α	S	N	625	150	25	25	100	0.1	18	-	300	2.0	325	<u> </u>	₩		-	-			92	
MPS3393	Α	S	N	625	150	25	25	100	0.1	18	90	180	2.0	245		-				3.5			
MPS3394	Α	S	N	625	150	25	25	100	0.1	18	55	110	2.0	180	ļ	-		<u> </u>		3.5		92	_
MPS3395	Α	S	N	625	150	25	25	100	0.1	18	150	-	2.0	475	ļ	-			<u> </u>	3.5		92	
MPS3702	A	S	P	625	150	40	25	200	0.1	20	60	300	50			-		100		12		92	
MPS3703	A	S	P	625	150	40	25	200	0.1	20	30	150	50			_		100		12	1	92	
MPS3704	A	S	N	625	150	50	30	600	0.1	20	100	_	50		L			100		12	1	92	
MPS3705	Α	S	N	625	150	50	30	600	0.1	20	50	_	50			1	1	100		12	<u> </u>	92	
MPS3706	Α	S	N	625	150	40	20	600	0.1	20	30	-	50					100		12		92	
MPS3707	Α	S	N	625	150	30	30	30	0.1	20	100	400	0.1	325					5.0			92	
MPS3708	A	S	N	625	150	30	30	30	0.1	20	45	660	1.0	423				<u></u>				92	
MPS3709	Α	S	N	625	150	30	30	30	0.1	20	45	165	1.0	150								92	
MPS3710	Α	S	N	625	150	30	30	30	0.1	20	90	330	1.0	270								92	
MPS3711	Α	S	N	625	150	30	30	30	0.1	20	180	660	1.0	490			I .					92	
MPS5172	Α	s	N	625	150	25	25	100	0.1	25	100	500	10	425								92	
MPS6513	Α	s	N	625	150	40	30	100	50n	30	50	100	2.0							3.5		92	
MPS6513	Α	s	N	625	150	40	30	100	50n	30	90	180	2.0							3.5		92	
MPS6514	Α	S	N	625	150	40	25	100	50n	30	150	300	2.0							3.5		92	
MPS6515	Α	S	N	625	150	40	25	100	50n	30	250	500	2.0							3.5		92	
MPS6516	Α	S	P	625	150	40	40	100	50n	30	50	-	2.0							4.0	T	92	
MPS6517	Α	S	P	625	150	40	40	100	50n	30	90	_	2.0							4.0		92	
MPS6518	Α	S	Р	625	150	40	40	100	1.0	30	150	+	2.0		-	T				4.0		92	
MPS6519	A	S	P	625	150	25	25	100	1.0	20	250	_			1	1				4.0	+	92	
MPS6520	A	S	N	625	150	40	25	100	50n	30	200	-	2.0						3.0	3.5	_	92	
MPS6521	A	S	N	625	150	40	25	100	50n	30	300		2.0	t^-	 	+	1	\vdash	3.0	3.5		92	
MPS6522	A	S	P	625	150	25	25	100	50n	20	200		2.0	 	-	+		-	3.0	3.5	_	92	
MPS6523	A	S	P	625	150	25	25	100	50n	20	300		2.0	 	-	+-	+	+-	3.0	3.5		92	
MPS6530	A	S	N	625	150	60	40	600	50n	40	40	-	100	-	-	+		+-	10.0	5.0	_	92	
	_	-	-	625	-	+	40			40	90	_			+	+-	+	+	-	5.0	_	92	
MPS6531	A	S	N	-	150	60		600	50n			-	-	-	-	+		1-	+-	_		92	
MPS6532	A	S	N	625	150	50	30	600	0.1	30	30	_	100	-			-	-	-	5.0			
MPS6533M	A	S	P	625	150	40	40	600	50n	30	40	-	100	-	1	-		1		8.0	_	92	
MPS6534M	A	S	P	625	150	40	40	600	50 n	30	90	-	100		ļ	_	<u> </u>	1		8.0		92	
MPS6535M	A	S	Р	625	150	30	30	600	0.1	20	30	1	100					1		8.0		92	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
FRQ 3725			_		-				-
FQ3724									-
FQ3725				1					
MD918								1	DUAL
MD2218		1-		1					DUAL
MD2218A				1					DUAL
MD2219									DUAL
MD2219A									DUAL
MD2369									DUAL
MD2904									DUAL
MD2904A								†	DUAL
MD 2905								1	DUAL
MD2905A									DUAL
MD3250									DUAL
MD3251									DUAL
MPS 2711						2SC 826	2SC 805	2SC 427	
MPS2712					-	2SC 826	2SC 805	2SC427	
MPS 2923						2SC 826	2SC 805	2SC 427	
MPS 2924						2SC 826	2SC 805	2SC 427	
MPS 2925						2SC 826	2SC 805	2SC 427	
MPS 2926						2SC 826	2SC 805	2SC427	
MPS 3721						2 SC 826	2SC 805	2SC 427	-
MPS 3392		1				2SC 826	2SC 805	2SC 427	
MPS 3393						2SC826	2SC 805	2SC 427	
MPS 3394						2SC826	2SC 805	2SC 427	
MPS 3395						2SC 826	2SC 805	2SC 427	+
MPS 3702	2SA503		2SA537A			2SA523A	20000	200421	
MPS 3703	2SA503		2SA537A			2SA523A			
MPS 3704	2 SC 503	2SC 959		2SC 307		201102011			
MPS 3705	2SC 503	2SC 959		2SC 307					
MPS 3706	2SC 482	2SC 959		2SC307					-
MPS 3707							2SC 470	2SC 1048	
MPS 3708							2SC 470	2SC 1048	
MPS 3709			1				2SC 470	2SC 1048	
MPS 3710							2SC 470	2SC 1048	
MPS 3711							2SC 470	2SC 1048	
MPS5172	2SC503		+			2SC 198	200110	2001040	
MPS 6512	2 SC 503		1			2SC 89			
MPS 6513	2 S C 503					2SC 189			
MPS 6514	2SC 503				111	2SC 189			
MPS 6515	2SC 503					2SC 189			
MPS 6516	2SA501		2SA673						
MPS6517	2SA501		2SA673						
MPS 6518	2SA501		2SA673						
MPS6519	2SA501		2SA673						
MPS 6520				2SC 304				2SC 875	
MPS 6521	1			2SC 304				2SC875	
MPS 6522	2SA501		2SA673				-	2000.0	
MPS 6523	2SA501		2SA673						
MPS 6530	2SC 503	2SC 959		-					
MPS 6531	2SC 503	2SC959							
MPS 6532	2SC 503	2SC 959							
MPS6533M	2SA504	200303	-			2SA580			
MPS6534M	2SA504					2SA580			
MPS6535M	2SA504		2SA673			2SA580			

		7	7	M,	AXIMU	M R	ATINGS	-					EL.	ECTRICA	L CHAR	ACTERI	STICS					OUTLINE	
TYPE	USE	MATERI	POLALITY	Pc 25 °C (mW)	Tj (°C)	Vcs (V)	VCEO (V)	lc (mA)	(μ A)	Vos(V)	min	max.	lc (mA)	hfe	hie (Ω)	hve (×10)	hoe (μೖ)	fr *fae **fap (MHz)	NF (dB)	Cob (pF)	Coxrbb'	TO.	NOTE
MPS6560	A	S	N	625	150	25	25	600	0.1	20	50	200						60		30		92	
MPS6561	A	S	P	625	150	25	25	600	0.1	20	50	200	350	-		-		60		30		92	
MPS6562	A	S	N	625	150	20	20	600	0.1	20	50	200	500	_				60		30	-	92	
MPS6563	A	S	P	625	150	20	20	600	0.1	20	50	200	350			-		60		30	-	92	
	-		-		-		-	-			_		_	2.0		-		- 00		3.5		92	
MPS6565	Α	S	N	625	150	60	45	200	0.1	30	40	160	10	2.0					-	_	7	92	
MPS6566	Α	S	N	625	150	60	45	200	0.1	30	100	400	10	2.0	_	-				3.5	-	92	
MPS6571	Α	S	N	625	150	20	20	50	50 n	20	250	1000	0.1			-		50		4.5	1		
MPSA05	Α	S	N	625	150	60	60	500	0.1	60	50	-	10			-		50				92	
MPSA06	A	S	N	625	150	80	80	500	0.1	80	50		10					50				92	
MPSA09	Α	S	N	625	150	50	50	100	0.1	25	100	600						30		5.0	-	92	
MPSA12	Α	S	N	625	150				0.1	15	20K		10	35		-				8.0		92	
MPSA13	Α	S	N	625	150	30	30	300	0.1	30	5K		10					200	2.0	5.0	-	92	
MPSA14	A	S	N	625	150	30	30	300	0.1	30	IOK		10					200	2.0	5.0		92	
MPSA20	A	S	N	625	150		40	100	0.1	30	40	400	5.0					125		4.0		92	
MPSA70	Α	S	Р	625	150		40	1Q0	0.1	30	40	400	5.0					125		4.0		92	
MPSA42	Α	S	N	625	150	300	300	500	0.1	200	40		30					50				92	
MPSA43	A	S	N	625	150	200	200	500	0.1	160	50	200	30					50				92	
MPSA55	Α	s	Р	625	150	60	60	500	0.1	60	50		10					50				92	
MPSA56	Α	S	Р	625	150	80	80	500	0.1	80	50		10					50				92	
MPSA92	A	S	Р	625	150	330	300	500	0.25	200	25		30					50				92	
MPSA93	A	S	P	625	150	200	200	500	0.25	160	30	150	30					50			-	92	
MPSL01	A	S	N	625	150	140	120	600	1.0	75	50	300	10	- 30		-		60		8.0	-	92	
MPSL51	A	S	P	625	150	100	100	600	1.0	50	40	250	50	20	_	+		60		8.0	+	92	
MPSL07	_	S	P	625	150	6.0	6.0	80	1.0	30	30	120	10	20		+-		500		3.0	-	92	
MPSL08		S	P			-	-	80		-	30	120	10			-		700	_	3.0	1-	92	
		_	·	625	150	12	12	80		20				-				700	_	3.0	+	92	
PE3100	-	S	N	425	150	30	30		0.2	30	30	225	5	5		-					-		-
PE5010	Α	S	N	300	150	30	30		50n	10	25	200	4	3.75		-			3.3	-	_	92	
PE5013	Α	S	N	300	150	20	20		50 n	10	20	200	4	3.0		_		_	4.0			92	
PE5015	Α	S	N	300	150	20	20		50 n	10	20	200	4	3.0					4.0			92	
PE5025	IF	S	N	425	150	30	30		50n	30	20	100	10	5.0								92	
PE5029	Α	S	Ν	425	150	35	30		0.2	30	30	225	5	5.0					6.0			92	
PE5030	Α	S	Ν	425	150	45	40		0.1	30	45	150	7	6.0								92	
PE5031	A	S	Z	425	150	40	30		0.1	30	30	180	5	6.0					4.5			92	
PE6020	A	S	N	625	150	60	60	1A	0.1	50	100	300	150	4.0								92	
PE6021	Α	S	N	625	150	60	60	IA	0.1	50	100	300	150	4.0								92	
PN4357	Α	s	ρ	625	150	240	240		20n	200	80	300	10	250			Ì		10	7.0		92	
PN5964	AP	S	N	625	150	160	150	600	50n	120	50	250	10	50	6K		40					92	
PN5965	AP	S	N	625	150	200	180	600	50n	160	50	+	10	50	6K		40					92	
SE5020	Α	s	N	175	175	20	20		50n	10	20		4	6					3,3		1	18	
SE5021	A	s	N	175	175	20	20		50n	10	20	200	4	6		1			4.0			18	
SE5022	A	S	N	175	175	20	20		50n	10	20	200	4	6		1			4.0		-	18	
SE5023	A	s	N	175	175	20	20	-	50n	10	20	200	4	6	_	-			6.0		1	18	
SE5023	A	S	N	175	175	20	20		50n	10	20	200	4	6	_	+	-		6.0		-	18	
SE5035	A	S	N	200	175	20	30		50n	30	40	180	5	10		-	-	ł	5.0		+	18	
		S					30	-		-		-	+		-	-			5.0	-	-	18	
SE5036	_A_	_	N	200	175	00		-	50n	30	30	225	5	8		-		\vdash			1		
SE5050	Α	S	N	175	175	20	20		50n	10	,	-	-	3	_	-			4.0	-	+	18	
SE5051	A	S	N	175	175	20	20	-	50 n	10	-		-	3			_	-	4.0		-	18	
SE5055	Α	S	N	175	175	20	20		50n	20		220	2	5	_	-		-	5.0		1	18	
SE6020	Α	S	N	300	125	60	60	IA	0.1	50	100	300	-	4						-		5	
SE6021	Α	S	Ν	300	125	60	60	IA	0.1	50	100	300	150	4		-					-	5	
SE7055	Р	S	Ν	1000	200	220	220		0.1	150	20		1	2				80				5	
SE7056	Р	S	N	1000	200	300	300		0.1	200	20		1	2				80				5	
SE7057	Р	S	N	1000	200	450	450		0.1	300	15		1	1.5				80				5	
SE9331	Р	S	N	20 W	175	300	300	IA	10	300	30	250	100					10		20		66	
2N706		S	N	300	175	25			0.3	15	20		10	2.0						6		18	

TYPE	TOSHIBA	NEC	нітасні	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
MPS 6560		2SC 959		2SC 306		2SC 221			1
MPS 6561	2SA504		1			2SA580			1
MPS 6562	2000	2SC 959	-	2SC 306		2SC221			
MPS 6563	2SA504	10000				2SA580			
MPS 6565	2SC 501	1				2SC 202			
MPS 6566	2SC 501					2SC 202			
MPS 6571	2SC 482						2SC15		
MPSA05	2SC 503	+						+	1
MPSA06	2SC 560	1				2SC 560			1 .
MPSA09	20000	1	-			2SC 969			
MPSA12								1	1
MPSA13			1					-	
MPSA14								1	
MPSA20		1	2SC 151					2SC 875	
MPSA70	2SA501		2SA673						
MPSA42	2011001		1						
MPSA43									1
MPSA55								2SA535	
MPSA56			2SA537A						
MPSA92			20/100///						
MPSA93								1	
MPSL01		2SA712							1
MPSL51		2SA712	·						1
MPSL07		LOATIE	2SA742						
MPSL08		 	2SA742	-					
PE3100		-	200142	-		2SC 200		+	,
PE5010	-			-	-	2SC238			
PE50B		 	1			2SC 238		1	-
PE5015		-	 			2SC 238			
PE 5025	2SC383	2 SC 149	†		1	2SC61			
PE5029	2SC383	2SC 49		-		2SC 46			
PE5030	2SC383	2SC 49	1		-	2SC 46			
PE5031	2SC383	2SC 49		-	-	2SC 46	-	-	-
PE 6020	230363	23049	-	-		2SC 1069			
PE6021		-	-	-		2SC 1069			
PN4357.		+				2301003			-
PN4357. PN5964			-		2SD198			+	-
		-	-		2SD198			-	-
PN5965 SE5020		1		-	230130		-	+	-
SE5020							1	+	-
SE5021								1	
SE5022								 	-
SB5024		-		-			1		
SE5024 SE5035		-			1	-	-		
SE5035 SE5036				+				+	1
SE5036 SE5050		2SC567							
SE5050		2SC567 2SC567		-				-	-
SE5051 SE5055		2SC567 2SC567	1	-	-			+	+
		230561	-			2SC 1069		-	-
SE6020		-	-			2SC 1069	-	-	
SE6021					-	2301069			-
SE7055				-				-	
SE 7056			-	-	-		-	-	
SE7057				-	-		200200	-	-
SE9331		000:070	0001070	-		200 1070	2SD326		
2N706	1	2 SC 1072	2SC 1072			2SC 1072			

		N.	_		XIMUN	R/	ATINGS			-			EL	ECTRICAL	CHAR	ACTERIO	1103	1.			-	OUTLINE	
TYPE	USE	MATERIAL	POLALITY	Pc 25*C (mW)	Ti (°C)	Vcs (V)	VCEO (V)	lc (mA)	lci (μA)	Vos(V)	min.	max.	lc(mA)	hfe	hie (Q)	hre (×10)	hoe (μδ)	*fae **fae (MHz)	NF (dB)	Cob (pF)	(ps)	то.	NOTE
AP\$706	SH	S	N	625	150	25			0.5	15	20		10	2.0						6.0		92	
N706A	SH	S	N	300	175	25			0.5	15	20	60	10	2.0						5.0		18	
MPS706A	SH	S	N	625	150	25			0.5	15	20	60	10	2.0						6.0		92	
2N709	SH	S	N	300	200	15	6.0		50 n	5	20	120	10					600		3.0		18	
FT709	SH	S	N	300	200	15	6.0		50n	5	30	125	10					600		3.0		18	
2N3010	SH	S	Ν	300	200	15	6.0	- 2			25	125	10					600		3.0		18	
2N718A	A	S	N	500	200	75	32		10n	60	40	120	150	3.0					12	25	1	18	
2N1613	A	S	N	800	150	75	32		10n	60	40	120	150	3.0					12	25		5	
PN1613	Α	S	N	625	200	75	32		1 0 n	60	40	120	150	3.0					12	25		92	
2N956	A	S	N	500	200	75	32		10n	60	100	300	150	3.5					8	25		18	
2N1711	Α	s	N	800	200	75	32		10n	60	100	300	150	3.5					8	25		5	
PNI7II	A	s	N	625	150	75	32		10n	60	100	300	150	3.5					8	25		92	
2N834	SH	S	N	300	175	40		200	0.5	20	25		10					350		4		18	
MPS834	SH	S	N	625	150	40		200	0.5	20	25		10					350		4		92	
2N918	A	S	N	200	200	30	15	50	10n	15	20		3	6					6	1.7		18	
MPS918	A	S	N	625	150	30	15	50	10n	15	20		3	6					6	1.7		92	
2N930	A	S	N	300	175	45	45	30	10n	45	100	300	0.01	400					3	8.0		18	
2N997	A	S	N	500	175	75	45	300	10n	60	1000		0.1									18	
2N998	A	S	N	500	200	100	60	-	10n	90	800		1.0	1000					6	30		18	
2N999 .	A	S	N	500	200	60	60	500	10n	60	1000		0.1							20		18	
2N1893	A	S	N	800	200	120	80	500	10n	90	20		0.1	70						15	1	5	
PN1893	A	S	N	625	150	120	80		10n	90	20		0.1	70						15		92	
2N2218	A	S	N	800	175	60	30	800	10n	50	40	120	150		60		1			8		5	
2N2219	A	S	N	800	175	60	30	800	10n	50	100	300	150		60		t			8		5	
PN2218	A	S	N	625	150	60	30	800	10n	50	40	120	150		60	_				8	1	92	
PN2219	A	S	N	625	150	60	30	800	10n	50	100	300	150		60		1			8		92	
2N2221	A	S	N	500	175	60	30	800	10n	50	40	120	150		60			1	-	8	1	18	
	A	S	N	500	175	60	30	800	10n	50	100	300	150	-	60	-	-	 	1	8	1	18	
2N2222	-	-	-		-	60	30	800	1011	50	40	120	150		60	+-	+	-	-	8	-	92	
PN2221	A	S	N	625	150	60	30	800	10n	50	100	300	150		60	1				8	+	92	
PN2222	A	S	N	625	150	75	-	800	100	60	40	120	150	150	60	500		+		8	+	5	
2N2218A	A	S	N	800	175	75	40	-	10n	60	100	300	150	200	60	800	_		4	8		5	
2N2219A	A	S	N	800	175		40	800	10n	60	40	120	150	150	60	500	+	-	-	8	+	92	
PN2218A	A	S	N	625	150	75	40			-	-	-	150	200	60	800	-	-	4	8	+	92	
PN2219A	A	S	N	625	150	75	40	800	10n	60	100		150	150	60	500		-	4	8	-	18	
2N2221A	A	S	N	500	1.75	75	40	800	10n			120	150	200	60	800	_	-	4	8	+	18	
2N2222A	A	S	N	500	175	75	40	800	10n	60	100	300	+		-	500	-	-	-	8	+	92	
PN2221A	A	S	N	625	150	75	40	800	10n	60	40	120	150	150	60	+	~	+	4	8		92	
PN2222A	A	S	N	625	150	75	40	800	10n	60	100	300	-	200	60	800	,	+	4	4	1	18	-
2N2369	SH	S	N	360	200	40	+	500	0.4	20	40	120	10	-	-	+-	+	+	+	4	-	18	
2N2369A	SH	S	N	360	200	40	-	500	0.4	20	40	120	10	-	-	-	+-	+	-	4	-	92	_
MPS2369	SH	S	N	625	150	40	-	500	0.4	20	100	-	+	500	-	800	-	+	3	6	+	18	
2N2484	A	S	N	360	200	60	-	50	10n	45	-	-	_	700	-	800	-	-	3	4.5	-	92	
PN2484	A	S	N	625	150	60	-	50	10n	45	250		_	-	-	800	-	-	8	_	-	5	-
2N2639	A	S	-	600	-	45	-	30	10n	45	50		-	350	-	-	+-	+	-	4	-	5	-
2N2640	Α	S	N	600	-	45	-	30	10n	45	50	_	_	350	-	+-	-	-	8	4	_	5	-
2N2641	A	S	-	600	-	45	_	30	10n	45	50	+	-	350	-	-	-	+	-	_	_	5	-
2N2642	A	S	-	600	1_	45	+	30	10n	45	100	-	+	350	-	+	1-	+-	8	4	-		-
2N2643	A	S	-	600	-	45	-	30	10n	45	100	+	+	+			-	+-	8	4		5	-
2N2644	A	S		600		45	+	30	10n	45	100	-	-	350	-		-	-	8	4	_	5	-
2N2723	A	S		500	200	-		40	10n	60	2K	IOK	_	9K		-	-	-	10	10	_	18	-
2N2724	Α	S		500	200	-	-	40	10n	60	7K	50K	-	30K		-	-		6	10		18	
2N2725	A	S	N	500	200	45	45	30	2n	30	2K	IOK	0.1	9K			-		6	10	-	18	
2N2894	SH	S	P	360	200	12	12	200	10	6	40	150	-							6	_	18	
2N2894A	SH	S	P	360	200	12	12	200	10	10	40	120	30							4.5	_	18	
2N3012	SH	s	P	360	200	12	12	200			30	120	30							6		18	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
MPS 706	2SC 503					2SC 906	· .		
N706A	2SC 982								
MPS 706 A	2SC 503					2SC 906			
N709						2 SC 850	2SC 634		
-T 709						2SC850	2SC 634		
N3010						2SC850	2SC 634		
N718A		2SC1008					2SC 1124		
N 1613		2SC1008					2SC 1124		
PN1613	-	2SC 1008					2SC1124		
2N956		2SC 1008					2SC1124		
2N1711	-	2SC 1008					2SC1124		
PN 1711		2SC 1008					2SC 1124		
2N834	2SC 503					2SC189			
MPS 834	2SC 503					2SC 189			
2N918						2SC 72A			
MPS918						2 SC 238			
2 N 9 3 0		2SC 899							
2 N 9 9 7									
2 N 9 9 8	5000								
2N999									
2N1893						-	.2SC1127		
PN 1893			_				2SC1127		
2N2218					2SC 696	2SC 229			
2N2219					.2SC696	2SC 229			
PN2218					2SC 696	2SC 229			
PN2219					2SC 696	2SC 229			
2N2221					2SC 696	2SC 229			
2N2222		-	-		2SC 696	2 SC 229			
PN2221					2SC 696	2 SC 229			
PN2222					2SC 696	2SC 229	1		
2N2218A					2SC 696	2SC 229			
2N2219A					2SC 696	2SC 229			
PN2218A					2SC 696	2SC 229			
PN2219A					2SC 696	2SC 229			
2N2221A					2SC696	2SC 229			
2N2222A	-			1	2SC 696	2SC 229			
PN2221A					2SC 696	2SC 229			
PN2222A			-		2SC 696	2SC 229			
2N2369	2 SC 108	,		1		2SC 233			
2N2369		-				250233			- 15
MPS 2369	2SC 108					2 SC 233			
2N2484		2SC 1400				-		2SC 1570	
PN2484		2SC 1400		+				2SC 1570	
2N2639				2SC 1583					
2N2640				2SC 1583					
2N2641				2SC 1583					
2N2642		-	-	2 S.C 1583					
2N2643				2SC 1583					
2N2644				2SC 1583					
2N2723				223.000					
2N2723		+		_	1				
2N2724 2N2725	_			<u> </u>	-				
2N2723 2N2894	2SA467	,				2SA 559			
2N2894 2N2894A	2SA467					2SA559	-	-	
Z 14 Z 0 3 4 A	2SA467					2SA559	-	1	

		¥	2	MA	XIMUN	A RA	TINGS			_	_		EU	ECTRICAL	CHAR	ACTERI	STICS			-		OUTLINE	
TYPE	USE	MATERI	POLALITY	Pc 25°C	Ti	Vcs	VCEO	lc (=4)	lce	-		hre		hte	hie (Ω)	hre (×10)	hoe	*fae **fae (MHz)	NE (dB)	Cob (pF)	Coxrbb'	TO.	NOTE
		_		(m₩)	(.c)	(V)	(V)	(mA)	(µA)	Vos(V)	min.		tc(mA)		(36)	(~10)	(40)	(MHz)	(00)		(10)		
2N3209	SH	S	Р	360	200	20	20	200			30	120	30			-				5	-	18	
N2904	A/S	S	P	600	200	60	40	600	20n	50	30		150					-		8	-	5	
2N2905	A/S	S	P	600	200	60	40	600	20 n	50	140	-	150							8	-	5	
N2906	A/S	S	P	400	200	60	40	600	20 n	50	00	-	150							8		18	
2N2907	A/S	S	Р	400	200	60	40	600	20 n	50	140	300	150							8		18	
PN2904	A/S	S	Р	625	150	60	40	600	20n	50	00	120	150							8	-	92	
PN2905	A/S	S	Р	625	150	60	40	600	20n	50	140	300	150							8		92	
PN2906	A/S	S	Р	625	150	60	40	600	20 n	50	00	120	150							8		92	
PN2907	A/S	S	Р	625	150	60	40	600	20 n	50	140	300	150							8		92	
2N2904A	A/S	S	P	600	200	60	60	600	10n	50	00	120	150							8		5	-4,
2N2905A	A/S	S	Р	600	200	60	60	600	10n	50	140	300	150					- 1		8		5	
2N2906A	A/S	S	Р	400	200	60	60	600	10n	50	00	120	150							8		18	
2N2907A	A/S	S	P	400	200	60	60	600	1 0 n	50	140	300	150							8		18	
PN2904A	A/S	S	Р	625	150	60	60	600	10n	50	00	120	150							8		92	
PN2905A	A/S	S	P	625	150	60	60	600	10n	50	140	-	150							8		92	
PN2906A	A/S	S	P	625	150	60	60	600	10n	50	00	-	150							8		92	
PN2907A	A/S	S	P	625	150	60	60	600	10n	50	140		150	-		-				8		92	
2N2913	A	S	N	500	200	45	45	30	10n	45	00		.01						4	6		5	
2N2913 2N2914	A	S	N	500	200	45	45	30	1011	45	160	-	.01			1			3	6	+	5	
2N2914 2N2972	-	S	N	300	200	45	45	30	10n	45	50	-	.01				-	t	4	6		18	
	Α	-	-	-	-		_	_	10n	45	160	-	.01					-	3	6	1	18	
2N2973	A	S	N	300	200	45	45	30		45	50	-	.01			+-	-		4	6	1	5	
2N2915	A	S	N	500	200	45	45	30	10n	-	-	-	.01			-	-	+	4	6	+	5	
2N2915A	A	S	N	500	200	45	45	30	10n	45	60	-					-		4	6	+	5	
2N2919	A	S	N	500	200	60	60	30	2n	45	60		.01			·	-	-	-	-	-	5	
2N2919A	Α	S	N	500	200	60	60	30	2n	45	60	-	.01			-	-	-	4	6	+-		_
2N2974	A	S	N	300	200	45	45	30	10n	45	60	-	.01	_		+	-	-	4	6	-	18	
2N2978	A	S	N	300	200	60	60	30	2n	45	60	-	.01			-	-	-	4	6	-	18	
2N2916	A	S	N	500	200	45	45	30	10n	45	160	-	.01			-	-	-	3	6	-	5	
2N2916A	Α	S	N	500	200	45	45	30	I 0 n	45	150	-	.01			-		1	3	6	+	5	
2N2920	Α	S	N	500	200	60	60	30	2n	45	150	_	.01					5	3	6	-	5	
2N2920A	Α	S	N	500	200	60	60	30	2n	45	150	600	.01						3	6		5	
2N2975	A	S	N	300	200	45	45	30	10n	45	150	600	.01						3	6		18	
2N2979	Α	S	N	300	200	60	60	30	2n	45	150	600	.01						3	6		18	
2N2917	Α	S	N	500	200	45	45	30	10n	45	50	240	.01						4	6		5	
2N2918	A	S	N	500	200	45	45	30	10ก	45	160	600	.01						3	6		5	
2N2976	Α	S	N	300	200	45	45	30	I On	45	50	240	.01						4	6		18	
2N2977	A	S	N	300	200	45	45	30	10n	45	160	-	.01						3	6		18	
2N3009	S	S	N	360	200	40	15	200			50	120	30							5		18	
2N3013	S	S	N	360	200	40	15	200			30	120	30							5		18	
2N3014	S	S	N	360	200	40	20	200			30	-	30							5		18	
2N3011	S	S	N	360	200	30	12	200			30	_	10						-	4		18	
2N3019	A	S	N	800	200	140	80	IA	10n	90	100	-	150	120		1			. 4	12		5	
2N3013	A	S	N	800	200	140	80	IA	10n	90	40	-	150	240				1		12		5	
2N3053	A	S	N	1 000	200	60	40	700	1.071		50	-	150	1		-		1		15		5	
2N3054	P	S	N	25W	200	90	55	4A	-		25	-	500	100			1	1	+	1	1	66	
2N3054 2N3055	P	S	N	115W	200	100	60	15A	<u> </u>	1	20	_	4 A	80	-	+	1				1	3	_
	-	-	N	800	200	-	60	IJA	10	60	+	+	150	- 00	-	+	-	+-	7	20		5	
2N3107	A/S	+	-	-	-	100	-	-	10	-	-	+	150	+		+		1-	7	25	-	5	
2N3108	A/S	-	N	800	200	100	60	-	-	60	140	+	-	-	-	+	-	+	7	20	-	5	
2N3109	A/S	-	N	800	200	80	40	-	10	60	00	+	150					1	7	-	-	5	-
2N3110	A/S	-	N	800	200	80	40	-	10	60	40	_	150	-		+-	Ī	-	1	25	1	_	_
2N3117	A	S	N	360	200	60	60	50	10n	45	250	-	01		-	-	-		-	4.5	-	18	-
2N3137	A	S	N	600	200	40	20	150	50n	20	20	+	50	-		-	+	+		3.5	+	5	-
2N3250	A/S	-	P	300	200	50	40	200			50	+	10					250	6	6	-	18	-
PN3250	A/S	S	P	625	150	50	40	200			50	+	10				ļ.,	250	6	6	-	92	-
2N3250A	A/S	S	P	300	200	60	60	200			50	150	10					250	6	6		18	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2 N 3209	_					2SA559			
2N2904	2SA512	2SA571			2SA546				
N 2905	2SA512	2SA571		-	2SA546				_
N 2906	2SA512	2SA571			2SA546				
N2907	2SA512	2SA571			2SA546				1
PN2904	2SA512 2SA512	2SA571			2SA546				+
		1			2SA546				+
PN 2905	2SA512	2SA571		-	2SA546				+
PN2906	2SA512	2SA571		-					+
PN2907	2SA512	2SA571			2SA546				
2N2904A	2SA512	2SA571			2SA546				+
2N2905A	2SA512	2SA571	-	-	2SA546				-
2N2906A	2SA512	2SA571			2SA546				-
2 N2907 A	2SA512	2SA571			2SA546				
PN 2904 A	2SA512	2SA571			2SA546				
PN2905A	2SA512	2SA57I			2SA546				
PN2906A	2SA512	2SA571			2SA546				
PN2907A	2SA512	2SA571			2SA546				
2N2913		,		2SC 1583					
2N2914				2 SC 1583					
2 N 2 9 7 2				2SC 1583					
2N2973 .				2SC 1583					1
2N2915				2SC 1583					
2N2915A				2SC 1583					
2N2919				2SC 1583					
2N2919A				2SC 1583	1				
2 N 2 9 7 4				2SC 1583		-			
2 N2978				2SC 1583					
2N2916				2SC 583					1
2N2916A				2SC 1583			1		+
2N2920				2SC 1583					
2N2920A		-		2SC 1583				1	_
		_		2SC 1583	-		-		+
2N2975			-	2SC 1583					+
2N2979			-		-		+		+
2N2917				2SC 1583					+
2N2918				2SC 1583	_				-
2 N 2 9 7 6				2SC 1583					
2N2977				2SC 1583					
2 N 3009			2 SC 479			2SC 233			
2N3013			2 SC 479			2SC 233			-
2N30+4			2SC479			2SC233			
2N3011			2SC 1385			2SC233			
2N3019			2SC 936				2SC 867		
2N3020	**		2 S C 9 3 6				2SC 867		
2 N 3053		2 SC 781		2SC775					
2 N 3054		2SD188					2SD88		
2 N 3 0 5 5		2SD181							
2N3107	2SC 485	2SD328							
2N3108	2SC485	2SD328							
2N3109	2SC485	2SD328							
2N3110	2SC485	2SD328							
2N3117	200400	2SC 1400	-		-		1		
2N3117		2001400	-	2SC 304			+		
2N3757 2N3250		2SA718		200304	-		2SA678		1
PN3250		2SA718	-				2SA678	-	-
			-						-
2N3250A		2SA718		1	}		2SA678		

		¥	7		AXIMU	m R	ATINGS		_		г		EL	EC I RICA	L CHAR	ALTER	131105	1 4.			T-	OUTLINE	
TYPE	USE	MATER	POLALITY	Pc 25*C (mW)	Tj (°C)	Vce (V)	VCEO (V)	lc (mA)	lc (μΑ)	Vce(V)	min	hre max.	ic(mA)	hfe	hie (Q)	hre (×10)	hoe	fr *fae **fab (MHz)	NF (dB)	Coh (pF)	Coxrbb'	TO.	NOTE
2N3251	A/S	S	Р	360	200	50	40	200	4,		100	300	10					250	6	6		18	
N3251	A/S	S	P	625	150	50	40	200			100		10	_				250	6	6	-	92	
2N3251A	A/S	S	P	360	200	60	60	200		-	100	300	10			-	-	250	6	6	-	18	
N3251A	A/S	S	P	625	150	60	60	200		1	100	-	10			-		250	6	6		92	
2N3409	A	S	N	023	230	60	30	500	10n	50	100	300	10					230	4	8		5	
2N3410	A	S	N		230	60	30	500	10n	50	-	-						-	4	8	-	5	_
2N3411	A	S	N		230	60	30	500	10n	50						-			4	8		5	
2N3423	-	-	Z	450	200	30	15	50	10n	-	20	200	3		-		-	600	3.5	1.7		5	
2N3423	A	S	Z	450	200	30	15	50	10n	15	20	-	3	·				600	3.5	1.7		5	
2N3439	P	S	N	1 W	200	450	350	500	. 20	360	40	160	20		-	-		600	3.3	10		5	
	P	S	-	IW	-	_	_	$\overline{}$		-	40		20			-	-	-	-	10	-	5	
2N3440		S	N		000	300	250	500	20	250	-	-		-		-	_		-		-		
2N3467	S	S	Р	5W	200	40	40	IA-	0.1	30	40		500		-	-				25	-	5	
2N3468	S	S	Р	5W	200	50	50	IA	0.1	30	25	75	500						-	25	-	5	
2N3563	A	S	N	200	125	30	12	50	50n	15	20		8	180		-			-	1.7	-	18	
MPS3563	Α	S	Ν	625	150	30	12	50	50n	15	20	-	8	180						1.7	1	92	
2N3564	Α	S	N	200	125	30	15	100	50 n	15	20	200	15	-					-	-	-	18	
2N3565	Α	S	Ν	200	125	30	25	50	50n	25	150	-	1	450					-	4	-	18	
PN3565	Α	S	N	625	150	30	25	50	50n	25	150	-	1	450		-				4		92	
2N3566	A	S	N	300	125	40	30	200	`50n	20	150		10							25		5	
PN3566	Α	S	Ν	625	150	40	30	200	50n	20	150	-	10							25		92	
2N3567	Α	S	N	300	125	80	40	100	50n	40	40	120	150	16								5	
PN3567	Α	S	N	625	150	80	40	100	50n	40	40	120	150	16								92	
2N3568	A	S	N	300	125	80	60	100	50n	40	40	120	150	16								5	
PN3568	Α	S	7	625	150	80	60	100	50n	40	40	120	150	16								92	
2N3569	Α	S	N	300	125	80	40	100	50n	40	100	300	150	16								5	
PN3569	Α	S	N	625	150	80	40	100	50n	40	100	300	150	16								92	
2N3638	A/S	S	P	700	125	25	25	500			20		10	25	2000	2600	1200			20		5	
2N3638A	A/S	S	Р	700	125	25	25	500			100		10	100	2000		1200			10		5	
MPS3638	A/S	S	P	IW	150	25	25	500			20		10	100	1500	2600	1200			20		92.	
MPS3638A	A/S	S	Р	IW	150	25	25	500			100		10	100	2000	1500	1200			.10		92	
2N3639	SH	S	Р	200	125	6	6	80			30	120	10							3.5	1	18	
MPS3639	SH	S	Р	625	150	6	6	80			30	120	10							3.5	1	92	
2N3640	SH	S	Р	200	125	12	12	80			30	120	10							3.5		18	
MPS3640	S	S	Р	625	150	12	12	80		-	30	-	10							3.5		92	
2N3641	A	S	N	350	125	60	30	500	-		40	-	150			_		_		8	-	5	
PN3641	Α	S	N	625	150	60	45	500			40		150							8		92	
2N3642	A	S	N	350	125	60	30	500	-	-	40	120	150		-		_		_	. 8	1	5	
PN3642	A	S	N	625	150	60	45	500	-		40	120	150		-			-		8	-	92	
2N3643	A	S	N	350	125	60	30	500		-	100	300	150	-			1	,	-	8		5	
PN3643	A	S	N	625	150	60	45	500	-	-	100	300	150		-	-	-		-	8		92	
2N3644	A/S	S	Р	300	125	60	60	500			80	240	50							8	-	5	
PN3644	A/S	S	P	625	150	45	45	500			80	240	50		-	-	-		-	8	-	92	
	-	-	P	300	125	60	60	500		-	80	240	50			-	-	-	-	8	-	5	
2N3645	A/S	S	Р	-	_		_	500		-	80	240	50				-		-	8	-	92	
N3645	A/S	S	-	625	150	45	45	_		-		_	30		-	-		-		5	-	18	
2N3646	S	S	N	200	125	40	15	200		-	30	120				-		-		_			
MPS3646	S	S	N	625	150	40	15	200	FC		30	120	30			-	_	-		5	+	92	
2N3688	À	S	N	200	125	40	40		50n	20	30	ļ .	4		-		-	-	5.5	1.6	-	18	
PN3688	Α	S	N	625	150	40	40		50n	20	30		4						5.5	1.6	-	92	
2N3689	A'	S	N	200	125	40	40		50n	20	30		4	11		_			5.5	1.6	-	18	
PN3689	Α	S	Ν	625	150	40	40		50n	20	30		4						5.5	1.6		92	
2N3690	Α	S	N	200	125	40	40		50n	20	30		4					L	5.5	1.6		18	
PN3690	Α	S	Ν	625	150	40	40		50n	20	30		4						5.5	1.6		92	
SE5006	Α	S	N						50n	20	30		4							1.6		18	
2N3693	Α	S	N	200	125	45	45	30	50n	30	40	160	10						4	6		18	
MPS3693	Α	S	N	625	150	45	45	30	50n	35	40	160	10						4	3.5		92	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N3251		2SA718					2SA678		
PN3251	-	2SA718					2SA678		1
2N3251A		2SA718					2SA678	-	
PN3251A		2SA718					2SA678		
2N3409									DUAL
2N3410					-				DUAL
2N3411				 					DUAL
2N3423						_			DUAL
2N3424									DUAL
2N3439								1	1
2N3440									_
2N3467				1		2SB456	-		_
2N3468						2SB456			
2N3563									
MPS3563								1	
2N3564						2SC54			1.
2N3565	2SC560					2SC560			
PN3565	2SC560	T , 1				2SC560			
2N3566	2SC560					2SC560			
PN3566	2SC560					2SC560			
2N3567	2SC560					2SC560			
PN3567	2SC560					2SC560			
2N3568	2SC560					2SC560			
PN3568	2SC560					2SC560			
2N3569	2SC560					2SC560		-	-
PN3569	2SC560					2SC560		1	1
2N3638	2SA682	2SA717					-		
2N3638A	2SA682	2SA717							
MPS3638	2SA682	2SA717							+
MPS3638A	2SA682	2SA717		1					+
2N3639	20,1002	2SA552					1	2SA532	
MPS3639		2SA552						2SA532	
2N3640		2SA552						2SA532	-
MPS3640		2SA552						2SA532	-
2N3641	2SC503	EGAGGE				2SC189		ECASOE	-
PN3641	2SC503					2SC189		-	-
2N3642	2SC503			 		2SC189			_
PN3642	2SC503			 	1	2SC189			+
2N3643	2SC503	-		+		2SC189		-	-
PN3643	2SC503	-		1		2SC189			-
2N3644	200000	2SA712				200103		2SA532	-
PN3644		2SA712		 				2SA532	+
2N3645		2SA712		-				2SA532	-
PN3645		2SA712						2SA532	+
2N3646		LUMITE		2SC307	1	2SC216		LUAUSZ	-
MPS3646				2SC307		2SC216		+	-
2N3688	2SC594	2SC594		2SC594		2SC238	 		
PN3688	2SC594	2SC594		2SC594		2SC238		-	1
2N3689	2SC594	2SC594 2SC594		2SC594 2SC594	-	2SC238		-	-
PN3689	2SC594	2SC594 2SC594		2SC594 2SC594		2SC238		-	-
2N3690	2SC594 2SC594	2SC594 2SC594		2SC594 2SC594		2SC238 2SC238		-	+
PN3690	2SC594 2SC594	2SC594 2SC594		2SC594 2SC594		2SC238			-
							·	-	-
SE5006	2SC594	2SC594		2SC594	-	2SC238		 	
2N3693		-		2SC305		2SC247		-	-
MPS3693				2SC305		2SC247			

	-	A	≥		AXIMUI	W R	ATINGS						EL	ECTRICA	L CHAR	ACTERI	STICS	-				OUTLINE	
TYPE	USE	MATER	POLALITY	Pc 25°C	Tj	Vcs	VCEO	lc (max)	lcs			hre		hfe	hie (Q)	hre (×10)	hoe (μδ)	*fae	NF (dB)	Cób (pF)	Coxrbb*	TO.	NOT
				(mW)	(,C)	(V)	(V)	(mA)	(μ A)	Vos(V)	min.	max.	Ic(mA)		(92)	(>10)	(μο)	(MHz)			(ps)	18	
2N3694	Α	S	N	200	125	45	45	30	50 n	30	100	400	10		-			-	4	6	-	-	
MPS3694	Α	S	N	625	150	45	45	30	50 n	35	100	400	10						4	3.5	-	92	
2N3700	Α	S	N	500	200	140	80	IA	1 0 n	90	100	300	150	240					4	12	-	18	
2N3701	Α	S	N	500	200	140	80	IA	1 0 n	90	40	120	150	120						12		18	
2N3713	Р	S	N	150W		80	60	IOA			25	75	IA	140						250		3	
2N3714	P	S	N	150W		100	80	I0A			25	75	IA	140						250		3	
2N3715	Р	S	N	150W		80	60	IOA			50	150	IA	140						250		3	
2N3716	Ь	S	И	150W		100	80	I0A			50	150	IA	140						250		3	
2N3722	S	S	N	800	200	80	60	IA			40	150	100							10		5	
FT3723	S	S	N	800	200	100	70	IA			40	150	100							9		5	
2N3724	SH	S	N	800	200	50	30	IA	1.7	40	60	150	100							12		5	
2N3725	SH	S	N	800	200	80	50	IA	1.7	60	60	150	100							10		5	
2N3726	Α	S	Р	500	200	60	60	300	10n	30	135	350	- 1	230	11.5	1.5	80		4	8		5	
2N3727	Α	S	Р	500	200	60	60	300	I On	30	135	350	T	230	11.5	1.5	80		4	8		5	
2N3728	Α	S	N	550	200	60	30	500	10n	50	45	180	1		3.5	300	20		7	8		5	
2N3729	A	S	N	550	200	60	30	500	10n	50	45	180	I		3.5	300	20		7	8		5	
2N3740	P	s	P	25W	200	60	60	IA	0.1	60	30	100	250	25						100		66	
2N3741	P	s	P	25W	200	80	80	IA	0.1	80	30	100	250	25						100		66	
2N3766	P	S	N	20W	200	80	60	4A	0.1	80	40	160	500	40	-					30	1	66	
2N3767	P	S	N	20W		100	80	4A	0.1	100	40	160	500	40			_		_	30		66	
2N3789	Р	S	P	150W		60	60	IOA	0.1	100	25	90	IA	140			-			500		3	
2N3790	P	S	P	150W		80	80	IOA			25	90	IA	140	_	-		-		500	-	3	-
	P	_	P	150W	-	60	60				50	180	IA	140		-				500		3	
2N3791	_	S	-		_	_	-	IOA		-	_	180	-	_		-	-			500	-	3	
2N3792	Р	S	P	150W		80	80	10A			50		IA	140		05			_			18	
2N3800	Α	S	<u> </u>	360	200	60	60	50	10n	50	150	450	1	380	30	25	60	<u> </u>	3	4			
2N3801	Α	S	Р	360	200	60	60	50	10n	50	300	900	1	600	40	25	60		1.5	4	-	18	
2N3802	Α	S	Р	360	200	60	60	50	I0n	50	150	450	1	380	30	25	60		3	4	-	18	
2N3803	Α	S	Р	360	200	60	60	50	I0n	50	300	900	- 1	600	40	25	60		1.5	4	-	18	
2N3806	A	S	P	600	200	60	60	50	1 0 n	50	150	450	1	380	30	25	60		3	4		5	
2N3807	Α	S	P	600	200	60	60	50	I 0 n	50	300	900	1	600	40	25	60		1.5	4		5	
2N3808	A	S	P	600	200	60	60	50	1 0 n	50	150	450	- 1	380	30	25	60		3	4		5	
2N3809	A	S	P	600	200	60	60	50	10n	50	300	900	- 1	600	40	25	60		1.5	4		5	
2N3804	Α	S	Р	360	200	60	60	50	1 0 n	50	150	450	1	380	30	25	60		3	4		18	
2N3804A	Α	S	Р	360	200	60	60	50	10n	50	150	450	1	380	30	25	60		3	4		18	
2N3805	Α	S	Ρ	360	200	60	60	50	10n	50	300	900	1	600	40	25	60		1.5	4		18	
2N3805A	Α	S	Р	360	200	60	60	50	10n	50	300	900	1	600	40	25	60		1.5	4		18	
2N3810	Α	, S	P	600	200	60	60	50	I On	50	150	450	- 1	380	30	25	60		3	4		5	
2N3810A	Α	S	Р	600	200	60	60	50	10n	50	150	450	1	380	30	25	60		3	4		5	
2N3811	Α	s	P	600	200	60	60	50	10n	50	300	900	1	600	40	25	60		1.5	4		5	
2N3811A	A	S	P	600	200	60	60	50	I On	50	300	900	1	600	40	25	60		1.5	4		5	
2N3903	A/S	S	N	625	150	60	40	200			50	150	10	125	8	5	40	250	6	4		92	
2N3904	A/S	S	N	625	150	60	40	200			100	300	10	250	10	8	40	300	5	4		92	
2N3905	A/9	-	Р	625	150	40	40	200			50	150	10	125	8	5	40	200	5	4.5		92	
2N3906	A/S	S	P	625	150	40	40	200			100	300	10	250	12	10	60	250	4.	4.5		92	
2N3923	Α	s	N	800	200	150	150	100	10n	100	30	120	25	20	-	-		40		3.5	_	5	
2N3946	A/S	s	N	360	200	60	40	200	, 5.,	1.00	50	100	10	150	6	10	30	- "	5	4		18	
2N3947	A/S	S	N	360	200	60	40	200		-	100	300	10	400	12	20	50		5	4	_	18	
2N3962	A/3	S	P	360	200	60	60	200			100	450	10	330	17	10	40		4	6		18	
2N3964	A	S	P	360	200	45	45	200		-	250	600	<u> </u>	470	20	10	50	-	4	6	-	18	
			P	<u> </u>	-	-					-	_	1					-	_	_	1	_	
2N3965	A	S	-	360	200	60	60	200			250	_	100	470	20	10	50	-	4	6	₩	18,	
2N4013	SH	S	N	360	200	50	30	500	1.7	40	60		100		-			-		12	1	18	
2N4014	SH	S	N	360	200	80	50	500	1.7	60	60	+	100					-	<u> </u>	10		18	
2N4015	Α	S	Р	500	200	60	60	300	I 0 n	50	135	-	!	260	11.5	1.5	80		4	8		5	
2N4016	Α	S	Р	500	200	60	60	300	10n	50	135		1	260	11.5	1.5	80	<u> </u>	4	8		5	
2N4017	Α	S	P	600	200	80	80	200	I 0 n	70	100	500		330	17	10	40		10	6		5	

ТҮРЕ	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N3694		,		2SC305		2SC247			
MPS3694				2SC305		2SC247			
2N3700									
2N3701									
2N3713	2SD113					2SD54			
2N3714	2SDI13			-		2SD54			
2N3715	2SDI13					2SD54			
2N3716	2SD113					2SD54			
2N3722		2SD78					2SC756		
FT3723		2SD78					2SC756		
2N3724		2SD78					-	2SD330	
2N3725		2SD78							BUILD
2N3726			1						DUAL
2N3727				-					DUAL
2N3728	-			-					
2N3729					205122				-
2N3740	2SB502		ļ		2SB128			-	-
2N3741	2SB502		-	-	2SB128		2SD47		-
2N3766		2SD73		-			2SD47	-	
2N3767		2SD73					25047		-
2N3789	2SB554			-					
2N3790	2SB554			-				-	-
2N3791	2SB554				-				
2N3792	2SB554	<u> </u>						-	DUAL
2N3800			<u> </u>						DUAL
2N3801				-					DUAL
2N3802 2N3803			-						DUAL
2N3803 2N3806			-						DUAL
2N3806 2N3807			-	+	-				DUAL
2N3807 2N3808								·	DUAL
2N3809			-						DUAL
2N3804			-					1	DUAL
2N3804A									DUAL
2N3805		-					-	 	DUAL
2N3805A			-						DUAL
2N3810	_								DUAL
2N3810A									DUAL
2N38 I									DUAL
2N3811A		 						1	DUAL
2N3903	2SC482		 		<u> </u>	2SC46		2SC875	
2N3904	2SC482				1	2SC46		2SC875	-
2N3905	2SA5Q1		2SA673		2SA546				
2N3906	2SA501		2SA673		2SA546				
2N3923			2SC154A						
2N3946	2SC108A						2SC632A		
2N3947	2SC108A						2SC632A		
2N3962							2SA705		
2N3964					`		2SA705		
2N3965							2SA705		
2N4013		2SD78						2SD330	
2N4014		2SD78							
2N4015									DUAL
2N4016									DUAL
2N4017									DUAL

		R.	E	Pc	MIXAN		RATING	T	-		_			LECTRICA	AL CHAP	RACTER	ISTICS	1 4-	-		_	OUTLINE	
TYPE	USE	MATERIAL	POLAUTY	25°C (mW)	(°C)	Vcs (V)	Voice (V)		(μA)	Vos(V	min.	max.	lc(mA)	hfe	hie (Ω)	hre (×10)	hoe (µo)	fr *fae **fag (MHz)	NF (dB)	Cob (pF)	Coxrbb (ps)	TO.	NOT
2N4018	A	S	P	600	200	45	45	200	I0n	50	100	600	T	400	20	10	50	(41172)	10	6		5	_
2N4019	A	S	P	600	200	45	45	200	10n	30	_		1	480	20	10	50	_	4	6		5	
2N4020	A	S	P	600	200	45	45	200	10n	30		-		480	20	10	50		2	6		5	
2N4021	A	S	P	600	200	60	60	200	10n	50	+	500	i	330	17	10	40		3	6		5	_
2N4022	A	S	P	600	200	60	60	200	10n	50	-	600	T	480	20	10	50	+	2	6	-	5	
2N4023	A	S	Р	600	200	45	45	200	10n	30	_	600	T	480	20	10	50		2	6	-	5	
2N4024	A	S	P	600	200	60	60	200	10n	50	-	500	Ť	330	17	10	40		3	6		5	
2N4025	A	S	P	600	200	60	60	200	10n	50	_	600		480	20	10	50	+	2	6		5	
2N4030	A	S	P	800	200	60	60	IA	50n	50	_	120	100	400	20	10	30	-		0	+	5	
2N4031	A	S	P	800	200	80	80	IA	50n	60	40	120	100			1	_				-	5	
2N4032	A	S	P	800	200	60	60	IA	50n	50	100	300	100		_	+-		-			-	5	
2N4033	A	S	P	800	200	80	80	HA	50n	60	100	300	_					ļ .	-	:	-	-	
2N4034	A/S	-	P	360	200	40	40	100	5011	60		_	100			_			-		-	5	
2N4035	A/S	S	P	360	200	40	40	100		-	70	200	10		8	3	24	400	6			18	
2N4046	SH	S	N	800	200	50	-	-		40	150	300	10		12	4	40	400	6			18	
2N4047	SH	S	N	800	-		30	500	1.7	40	60	150	100	_				<u> </u>	-	12		5	
2N4121	A/S	S	P	200	200	80	50	500	1.7	60	60	150	100						-	10	L	5	
2N4121	A/S	S	P		125	40	40	100		-	70	200	10		8	3	24	450	6			18	
2N4122 2N4123	-	S	-	200	125	40	40	100	-		150	300	10		12	4	40	450	6	_		18	
2N4123 2N4124	A/S		N	625	150	40	30	200	50n	20	50	150	2	125		\square			6			92	
	_	S	N	625	150	30	25	200	50n	20	120	360	2	250		Ш			5			92	
2N4125	A/S	S	Р	625	150	30	30	200	50n	20	50	150	2	125					5			92	
2N4 126	A/S	S	Р	625	150	25	25	200	50n	20	120	360	2	250					4		7	92	
2N4208	SH	S	Р	300	200	12	12	50			30	120	10					850		3		18	
2N4209	SH	S	P	300	200	15	15	50			50	120	10					850		3		18	
2N4234	P	S	Р	6W		40	40	IA	100	40	30	150	250	25						100		5	
2N4235	Р	S	Р	6W		60	60	IA	100	60	30	150	250	25						100		5	
2N4236	P	S	Р	6W		80	80	IA	100	80	30	150	250	25						100		5	
2N4237	P	S	N	800		50	40	IA	100	50	30	150	250	30						100		5	
2N4238	Р	S	Ν	800		80	60	IA	100	80	30		500	30						100		5	
2N4239	Р	S	Ν	800		100	80	IA	100	100	15		IA	30						100		5	
2N4248	A	Š	Р	200	125	40	40		10n	40	50		0.1	525								18	
PN4248	A	S	Ρ.	625	150	40	40		I On	40	50		0.1	525								92	
2N4249	Α	S	Р	200	125	60	60		10n	40	100	300	0.1	325	17	10	40		3	6		18	
PN4249	A	S	P	625	150	60	60		10n	40	100	300	0.1	325	-17	10	40		3	6		92	
2N4250	A	S	Р	200	125	40	40		10n	40	250	700	0.1	525	20	10	50		2	6		18	
2N4250A	A	S	Р	200	125	60	60		10n	50	250	700	0.1	525	20	10	50		2	6		18	
PN4250	Α	S	Þ	625	150	40	40		10n	40	$\overline{}$	700	0.1	525	20	10	50		2	6	\dashv	92	
PN4250A	Α	S	Р	625	150	60	60		10n	_	_	700	0.1	525	20	10	50		2	6		92	
2N4258	SH	S	Р	200	125	12	12	50	1 - 1			120	10			,			7			18	
2N4258A	SH	S	P	200	125	12	12	50			-	120	10									18	_
PN4258	SH	S	P	625	150	12	12	50		\neg	_	120	10			-+			_	_		92	
N4258A	SH	S	Р	625	150	12	12	50		-†		120	10			-+						92	-
2N4264	SH	S	N	IW	150	30	15	200		\dashv	-	160	10	-		-		300		175		92	-
2N4265	SĤ	-	N	IW	150	30	12	200			100	_	10		-	+		300	-		-	92	_
N4274	SH	s	N	200	125	30	12	500	10	20							-	400	-	_	-	18	
N4275	SH		N	200	125	40	15	500	10	20		\dashv	-			-+		400		_	-	18	
N4342	-	S	\top	200	125	Ť	-					+	-	-	\neg		\rightarrow	400	5				
N4343	FET	s	1	200	125							-	-		-		-	-			-	18	
N4354		\rightarrow	Р	350	125	60	60	500	50n	50	50	500	10	\dashv		-+			1.5		-	18	
MPS4354		\rightarrow	P	625	150	60	-	500	50n	\rightarrow	_	500	10		-+	\rightarrow		-	3	-	\dashv	5	
N4355	-		P	350	125	60	60	500	50n		_	100		-		\dashv	\rightarrow		3		_	92	
MPS4355	_		P	625	150	60	-	500					10		-				3			5	_
N4356			P	350	125	80	$\overline{}$	500	50n	\rightarrow		100	10		-	-			3		-	92	
MPS4356	-	\rightarrow	F	625	150	80			50n	50	_	250	10	_	\rightarrow	_			3	-		5	
N4398	-	\rightarrow	P	023	150		_	500	50n	50		250	10			_			3			92	
1400	Γ'	٦	_			40	40	30 A	1000	40	15	60	I5A	40								3	

ТҮРЕ	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
N4018									DUAL
N4019									DUAL
N4020									DUAL
N4021									DUAL
N4022	_	_							DUAL
N4023					- 1				DUAL
N4024									DUAL
N4025									DUAL
N4030	2SA484	2SB504			2SA546A				
2N4031	2SA484	2SB504			2SA546A				
2N4032	2SA484	2SB504			2SA546A				
N4033	2SA484	2SB504		<u> </u>	2SA546A				
N4034	2SA504	200001	2SA537			2SA523			
2N4035	2SA504		2SA537			2SA523			
2N4046	EUMJ04	2SD78							
2N4047		2SD78					_		
2N4121	2SA504	20070	2SA537	1		2SA523			
2N4121 2N4122	2SA504 2SA504		2SA537			2SA523			
2N4122 2N4123	2SC109		2SC112			2SC189			1
2N4123 2N4124	2SC109		2SC112		-	2SC189			_
2N4124	230103	2SA552	200112	-		200.00	_	2SA532	
2N4125		2SA552	_					2SA532	_
		23A332		2SA696	-		2SA678		
2N4208				2SA696			2SA678		
2N4209				23A030	2SB449	2SB456	204010	2SB474	
2N4234				-	2SB449	2SB456		2SB474	+
2N4235	_				230443	2SB456		2SB474	+
2N4236			200101		000007	2SD183		230474	1
2N4237		2SD79	2SD121		2SC697				
2N4238		2SD79	2SD121		2SC697	2SD183			-
2N4239		2SD79	2SD121		2SC697	2SD183			
2N4248	2SA493			-				-	_
PN4248	2SA493							-	-
2N4249							-		-
PN4249									
2N4250			_					-	-
2N4250A	2SA493						-		
PN4250	2SA493								-
PN4250A	2SA493	10						-	
2N4258		2SA712	2SA548	2SA458		2SA559		-	-
2N4258A		2SA712						1	-
PN4258		2SA712	2SA548	2SA458	1	2SA559		-	
PN4258A		2SA712		-					
2N4264					2SC827	2SC849		-	_
2N4265			-1-		2SC827	2SC849			
2N4274		2SC1071	2SC321			2SC1071		4	
2N4275		2SC1071	250321			2SC1071			
2N4342									FET
2N4343									
2N4354	2SA560	2SA606				2SA581			
MPS4354	2SA560	2SA606				2SA581			
2N4355	2SA560	2SA606				2SA581			
MPS4355	2SA560	2SA606				2SA581			
2N4356	2SA560	2SA606							
MPS4356	2SA560	2SA606					,		
2N4398			T						

		IAI.	E	_	AXIMU	m n	ATING	3	-		_		ы	ECTRICA	AL CHAR	CACTER	ISTICS		_		_	OUTLINE	
TYPE	USE	MATER	POLALITY	Pc 25°C	Tj (°C)	Vcs (V)	VCEO (V)	lc (mA)	to			hre		hfe	hie (Q)	hre	hoe	fr *fαe **fαn	NF	Cob	Coxrbb	TO.	NOT
2N4399	P	S	P	(mW)	(0)	-			(µA)	Vos(V)	min.	max.	Ic(mA)		(2)	(×10)	(µ0)	**fap (MHz)	(dB)	(pF)	(ps)		
	-	-	-	COF	150	60	60	30A	1000	60	15	60	15A	40		-						. 3	
2N4400	A/S	S	N	625	150	60	40	600		_	50	-	150	130	7.5	8	30	200		-		92	
2N4401	A/5		N	625	150	60	40	600		ļ.,	100	300	150	270	15	8	30	250				92	
2N4402	A/S	S	P	625	150	40	40	600		_	50	150	150	190	7.5	8	100	150				92	
2N4403	A/S	S	P	625	150	40	40	600			100	-	150	280	15	8	100	200				92	
2N4409	-	S	N	625	150	80	50	250	10n	60	60		10									92	
2N4410		S	N	625	150	120	80	250	10n	100	60	-	10									92	
2N4888	A	S	P	300	125	150	150	100	50n	100	40	400	10		20		40			4		5	
PN4888	A	S	P	625	150	150	150	100	50n	100	40	400	10		20		40			4		92	
2N4889	A	S	Р	300	125	150	150	100	10n	100	80	300	10		12	5	25		3	4		5	
PN4889	Α	S	P	625	150	150	150	100	10n	100	80	300	10		12	5	25		3	4	1.0	92	
2N4895	Р	S	N	800	200	120	60	5A			40	120	2A							80		5	
2N4896	P	S	N	800	200	120	60	5A			100	300	2A							80		5	
2N4897	P	S	N	800	200	150	80	5A			40	120	2A							80		5	
2N4901	P	S	P	87W	200	40	40	5A			20	800	IA	4								3	
2N4902	Р	S	P	87W	200	60	60	5A			20	800	IA	4					_			3	_
2N4903	P	S	P	87W	200	80	80	5A			20	800	IA	4						-		3	
2N4904	P	S	P	87W	200	40	40	5A			25	100	2.5A	4						-		3	
2N4905	P	S	P	87W	200	60	60	5A			25	100	2.5A	4	_	-	-	-			-	3	
2N4906	P	S	P	87W	200	80	80	5A			25	100	2.5A	4	_	-	· `	-			-	3	
2N4907	P	S	P	150W	200	40	40	10A			20	80		4						500	-		
2N4908	P	S	P	150W	200	60	60	IOA					4A		_	-	_			600	-	3	
2N4909	P	S	P	150W	200	80	80	-		-	20	80	4A	4	_	-	_			600	_	3	
2N4910	P	S	-	25W	_			IOA	100		20	80	4A	4		-				600		3	
	P	_	N		200	40	40	IA	100	40	20	100	500	25						100		66	
2N4911	-	S	N	25W	200	60	60	IA	100	60	20	100	500	25						100		66	
2N4912	P	S	N	25W	200	80	80	IA	100	80	20	100	500	25						100		66	
2N4231	Р	S	N	35W	200	40	40	3A	50	40	25	100	1.5A	20						200		66	
2N4232	Р	S	N	35W	200	60	60	3A	50	60	25	100	1.5A	20						200		66	
2N4233	Р	S	N	35W	200	80	80	3A	50	80	25	100	1.5A	20						200		66	
2N4898	Р	S	Р	25W	200	40	40	IA	100	40	20	100	500	25						100		66	
2N4899	Р	S	P	25W	200	60	60	IA	100	60	20	100	500	25				1		100		66	
2N4900	Р	S	Р	25W	200	80	80	IA	100	80	20	100	500	25						100		66	
2N4913	Р	S	N	87W		. 40	40	5A			25	100	2.5A	20								3	
2N4914	Р	S	N	87W		60	60	5A			25	100	2.5A	20								3	
2N4915	Р	S	Ν	87W		80	80	5A			25	100	2.5A	20								3	
2N4916	A/S	S	Р	200	125	30	30	100			70	200	10					450	6			18	
PN4916	A/S	S	Р	625	150	30	30	100			70	200	10					450	6			92	
2N4917	A/S	S	Р	200	125	30	30	100			150	300	10					450	6			18	
PN4917	A/S	S	Р	625	150	30	30	100	-		150	300	10				/	450	6			92	
2N4960	A/S	S	Ν	800	200	60	60	IA	10n	50	100	300	150					250				5	
2N4961	A/S	S	N	500	200	80	80	IA	10n	50	100	300	150					250				5	_
2N4962	A/S	S	N	800	200	60	60	IA	10n	50	100	300	150		-			250	-		-	18	
2N4963	A/S	S	N	500	200	80	80	·IA	10n	50	100	300	150					250				18	
2N4002	Р	S	N	50W	200			5A		- 55	30	90	2.5A		`			60			_	59	
2N5003	P	S	Р	50W	200			5A			30	-	2.5A					60				59	
2N5004	P	S	N	50W	200			5A			70	_	2.5A	-				70		-			_
2N5005	P	S	P	50W	200		-	5A	-		70	-	2.5A					-	-	-		59.	
2N5022	S	S	Р	1W	200	50	50	-	-		-	_		-			-	70			-	59	
2N5022	S	S	P.	IW	-	-	50	IA			25	100	500	-				-				5	
		_	_		200	30	30	IA			40	100	500									5	
2N5058	Α	S	N	IW	175	300	300	150	50n	100	35	150	30									5	
2N5059	Α	S	N	IW	175	-	250	150	50n	100	30	150	30									5	
2N5067	Р	S	N	87W		40	40	5A			20	80	IA	20								3	
2N5068	P	S	N	87W		60	60	5A			20	80	IA	20								3	
2N5069	Р	S	N	87W		80	80	5A			20	80	IA	20								3	
2N5086	A	S	Р	IW	150	50	50	50	Iûn	10	150	500	0.1	370				40		3		92	

TYPE	TOSHIBA	NEC	НІТАСНІ	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2 N 4 3 9 9									
2 N 4 4 0 0	2SC503	2SC 008					2SC1124		
2 N 4 4 0 I	2SC503	2SC 1008					2SC1124		
2 N 4 4 0 2	2SA682	2SA717							
2 N 4 4 0 3	2SA682	2SA717							
2 N 4 4 0 9									
2N4410	1.0								
2N4888									
PN4888									
2N4889									
PN 4889									
2N4895					2SC697A		2SC 299		
2 N 4896					2SC697A		2SC299		
2 N 4 8 9 7					2SC697A		2SC 299		
2N4901	2SB555	2SB539	2SA753	1			2SB520		
2N4902	2S8555	2SB539	2SA753				2SB520		
2N4903	2\$8555	2SB539	2SA753				2SB520		
2N4904	2SB555	2SB539	2SA753				2SB520		
2N4905	2SB555	2SB539	2SA753				2SB520		
2 N 4 9 0 6	2SB555	2SB539	2SA 753				2 SB520		
2 N 4 9 0 7	2SB554								
2 N 4 9 0 8	2SB554								
2 N 4 9 0 9	2\$B554								
2N4910		2SD73				2SD175	2SD88		
2N4911		2SD73				2SD175	2SD88		
2N4912		2SD73				2SD175	2SD88		
2N4231		2SD73				2SD175	2SD88		
2 N 4 3 3 2		2SD73			1	2SD175	2SD88		
2N4233		2SD73				2SD175	2SD88		
2 N 4898	2SB502	20270			2SB128				
2 N 4899	2SB502	+			2SB128				1
2N4900	2SB502				2SB128				
2N4913	2SC 1434	2SD181A					2SC 808		
2N4914	2SC1434	2SD181A					2SC 808		
2 N 4 9 1 5	2SC 1434	2SD181A		-			2SC 808		
2N4916	2301434	2SA552	2SA548		2SA550A	2SA558	100000	2SA532	1
PN4916		2SA552	20/1540		20700071	2071000		2SA532	
2N4917		2SA552	2SA548	-	2SA550A	2SA558		2SA532	
PN4917	-	2SA552	200040	-	20/1000/	207.000		2SA532	
	-	2SC97A		+		2SC 1069		23.1332	71
2N4960 2N4961	 	2SC97A 2SC97A		-		2SC 1069		-	1
	-	2SC97A	-	-		2SC 1069			
2N4962		2SC97A	-	+		2SC 1069	-		
2 N 4 9 6 3		23091A	2SD50			2SD50	2SD47	+	-
2N5002	200520	200506	23050	-		20000	2SB518		-
2 N 5 0 0 3	2SB530	2SB506	25050	-		2SD50	2SD47		1
2 N 5 0 0 4	200530	200500	2SD50			23030	2SB518		-
2 N 5 0 0 5	2SB530	2SB506	-		-	2SB456	230310		-
2 N 5 0 2 2		2SB239		-			-		-
2 N 5 0 2 3		2SB239	-			2SB456	-		-
2 N 5 0 5 8		-			1		-	-	-
2N5059		-			1		200.000	-	-
2N5067	2 SC 1433	÷			1		2 S C 8 0 8		-
2N5068	2SC 1433				-		2SC808		-
2N5069	2SC1433				1		2SC808		-
2 N 5 0 8 6							2SA705		

FAIRCHILD

		14	2		MAXIM	JM I	RATING	SS					E	LECTRICA	L CHAR	ACTER	ISTICS						-
TYPE	USE	MATERIAL	POINT	Pc 25°C	Tj (°C)	Ves (V)	VCEC (V)		le	_		hre		hfe	hie (Ω)	hre	hoe	fr *fae **fan	NF (4D)	Cob	Courbb	OUTLINE TO.	NOTI
2N5087	A	S	ш	(mw)		-	50	50	(μ A)	Voe(V	250	_	ic(mA)	600	(52)	(×10)	(µ0)	(MHz)	(dB)	(pF)	(ps)	- 00	
2N5088	A	S			150	_	30	50	50n	20	300	_	0.1	900			_	50	3			92	
2N5089	A	S	-		150	_		50	50n	15	400	-		1150					2		-	92	
2N5126	A	S	\rightarrow		125	_	-	30	in	10	20		4	200		-		50	5.5	<u> </u>	-	92	
PN5126	IA	s	N		150	_	20		In	10	20	+	4	200	_				5.5	-	-	18	
2N5127	A	s	_	+	125	_	12	100	50n	10	15	_	2	200	_	-			5.5	-	٠,	92	
2N5128	A/S	-	N		125	_	12	100	50n	10	35	_	50	_	-					 -		18	
PN5128	A/S	-	-		150	_	12	-	50n	10	-	350	50			-						5	
2N5129	A/S	-	N		125	15	12	-	50 n	10	35		50			-				-		92	
PN5129	A/S	-	N		150	15	12		50n	10	35		50								_	92	
2N5130	A	s	N		125	30	12	50	50n	10	15		8					-	4			18	
PN5130	A	S	N	_	150	30	12	50	50n	10	15		8	-		-			4				
2N5131	A	s	N		125	20	15	- 50	50n	10	30		10	310					4		-	92	
PN5131	A	S	N		150	20	15		50 n	10	30	500	10	310		\vdash						18	
2N5131	2.A	s	N		125	20	20		50n	10	30	400	10	340		Н			4	-	-	92	
PN5132	A	s	N	_	150	20	20		50n	10	30	400	10	340		H			4			18	
2N5133	A	s	N	_	125	20	18		50n	15	60	1000	10	570					4	\vdash	\vdash	92	
PN5133	A	s	N		150	20	18		50n	15	60	1000		570							\vdash	18	
2N5 34	SH	s	N		125	20	10	100	1	15	20	150	10	370				250			-	92	
PN5134	SH	s	N	1	150	20	10	100	i	15	20	150	10					250		-		_	
2N5135	A	s	N	_	125	30	30	200	0.3	15	50	600	10	-				40		_		92	
PN5135	A	S	N	625	150	30	30	200	0.3	15	50	600	10					40				5 92	
2N5136	A	S	N	300	125	30	30	300	0.1	20	20	400	150	-				40	_				
PN5136	A	S	N		150	30	30	500	0.1	20	20	400	150									5	
2N5137	Α	S	N	220	125	30	30	500	0.1	20	20	400	150					40				92	
PN5137	Α	s	Ň	625	150	30	30	500	0.1	20	20	400	150				-	40				92	
2N5138	Α	S	Р	200	125	30	30	000	50n	20		800	0.1	520				40			\vdash		
PN5138	Α	s	P	625	150	30	30		50n	20	50	800	0.1	520		-		_				92	
2N5139	A/S	s	P	200	125	20	20	100	3017		40	150	10	320		-	\rightarrow	300					
PN5139	A/S	s	P	625	150	20	20	100			40	150	10			\rightarrow		300			-	18	
2N5142	A/S	s	P	300	125	20	20	500			30	130	50					300				92	
PN5142	A/S	s	P	625	150	20	20	500		-	30	-	50								-	5	
2N5143	A/S	s	P	200	125	20	20	500			30	\dashv	50									92	
PN5143	A/S	s	P	625	150	20	20	500		-	30	-	50									18	
2N5209	A	s	N	625	150	50	50	50	50n	35	100	200	0.1	370	_			20	_			92	
2N5210	Α	s	N	625	150	50	50	50	50n	35		600	0.1	570				30	3		-	92	
2N5219	A	s	N	625	150	20	15	100	0.1	10		500	2	770		+		30	2		\rightarrow	92	
2N5223	A	S	N	625	150	25	20	100	0.1	10		800	2	825		-		150			\rightarrow	92	
N5220	A.	S	N	625	150	15	15	500	0.1	10	.30	-	50	915		\rightarrow		100			\dashv	92	
2N5221	A	s	Р	625	150	15	15	500	0.1	10		600	50	915		-+	_		\dashv			92	
2N5224	S	s	N	625	150	25	12	100	0.5	15	40	\rightarrow	10	313	\dashv	+	\dashv	250			_	92	
N5225	A	S	N	625	150	25	25	500	0.3	15		600	50	915	\rightarrow	\dashv	-+	_			-	92	-
N5226	A	S	P	625	150	20	25	500	0.3	15	_	600	50	915	\rightarrow	+		50	-		\rightarrow	92	
N5227	A	s	Ė	625	150	30	30	50	0.3	10		700	2	313	\rightarrow	+		50	\rightarrow	-	\rightarrow	92	_
N5228	S	S	P	625	150	5	5	50	3.1		15	,00	10		\rightarrow		\rightarrow	100	-		\dashv	92	
N5301	P	s	N	200W	200	40	40	30A	1000	40		60	15A	40	\dashv	_	\dashv	300			_	92	
N5302	P	s	N	200W	200	60	60	30A	1000	60	15		IOA		-	+	-+	2	-			3	
N5303	P	S	N	200W	200	80	80	20A	1000	80	15	_	IOA	40	-	+	\dashv	2				3	
N5320	_	s	N	10W	200	100	75	2A	. 000	00	\rightarrow	$\overline{}$	500	40		+	\dashv	2			\dashv	3	
N5321		S	N	10W	200	75	50	2A	\rightarrow	-	\rightarrow	\rightarrow		5	\rightarrow	\rightarrow	\dashv	-		\rightarrow	\dashv	5	
N5322		S	P	10W	200	100	75	2A	-	\dashv		_	500	5	-	+	\dashv	-		\dashv	_	5	
N5323	-	S	뒤	IOW	200	75	50	2A		\dashv	_		500	5	-+	_	\rightarrow			\rightarrow	\rightarrow	5	
N5334	-	S	N	6W	200	60	60 1	\rightarrow	-	60	40	_	500	5	_	4	\dashv	_				5	
N5335	-	S	N	6W	200	\rightarrow	\rightarrow	3A	5	60	-	150	IA	_	_		_				_	5	
N5336			_			80	80	3A	5	80	_	150	IA		_					75		5	_
142330	٢	S	N	6W	200	80	80	5A	10	80	30	120	2A			-				75	[5	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N5087	_		-				2SA705		
2N5088	2SCB86A			2SC 1313	2SC 1345				
2N5089	2SC 1386 A			2SC 1313	2SC 1345				
2N5126		2SC943	2SC 281					2SC 536	
PN5126	2SC 594	2SC 594		2SC 594		2SC 285A		2SC875	
2N5127	2SC504			2SC 306		2SC 200			
2N5128	2SC 504			2 SC 306		2SC 200			
PN5128	2SC 504			2SC 306		2 SC 200			
2N5129	2SC504 .	-		2SC306		2SC 200			
PN5129	2SC 504			2SC 306		2SC 200			
2N5130	2SC 979			2SC302				2SC 933	
PN5130	2SC979			2SC302				2SC933	
2N5131				2SC 303	2SC 456			2SC 876	
PN5131				2SC303	2SC 456			2SC 876	
2N5132				2SC 303	2 SC 456			2SC876	
PN5132		_		2SC303	2SC 456			2SC 876	
2N5133			2SC 166						
PN5133		,				2SC 188			
2N5134	2SC 504			2SC 306		2SC 200			
PN5134	2SC 504			2SC 306		2SC 200			
2N5135		-		2SC304		2SC 198 A		2SC875	
PN5135				2SC304		2SC 198 A		2SC 875	
2N5136	-		1	2SC 304		2SC 198A		2SC 875	
PN5136	-			2SC 304		2SC 198A		2SC 875	
2N5137		-		2SC 304		2SC 198A		2SC 875	
PN5137				2SC 304		2SC 198A		2SC 875	
2N5138	2SA482	2SA606	1						
PN5138	2SA482	2SA606							
2N5139	2071102	2SA552			2SA546			2SA532	
PN5139	-	2SA552			2SA546			2SA532	
2N5142	2SA513	2SA571	2SA537						
PN5142	2SA513	2SA571	2SA537						
2N5143	2SA513	2SA571	2SA537						
PN5143	2SA513	2SA571	2SA537						
2N5209	ZOADIO	EGASTI	207.007						
2N5210		_							
2N5210		2SC 38		2SC 774	-		2SC352		
2N5213		2SC38	1	2SC774			2SC 352		
2N5223 2N5220	2SC 367	25050		-				0	
2N5220 2N5221	2SA 467					1			
2N5221 2N5224	2 3A 401	2SC97	2SC 479	-		2SC 233			
2N5224 2N5225	2SC498	23031	2004/3	+	1				
	2SA498			-					T
2N5226 2N5227	234430			-					
	 	2SA552		1					
2N5228	2SD113	Z3A33Z		+					
2N5301	2SD113 2SD113		+	-			1		
2N5302			+						
2N5303	2SD55_	2SD49		-	1		2SD49		
2N5320		2SD49 2SD71	+	-		-	2SD49		1
2N5321	-	25071	+	-			100.0		
2N5322	-				-	1			1
2N5323	1			+	2SC697A	-			1
2N5334					2SC697A		-		+
2N5335 2N5336	ļ — —				230837A			1	1

FAIRCHILD

		RIAL	E		UMIXA	M S	ATING	S						ECTRICA	L CHAR	RACTER	ISTICS			,	,	OUTLINE	
TYPE	USE	MATERI	POLALITY	Pc 25°C	(°C)	Vcs (V)	Veso	lc (lcı			hra	_	hfe	hie (Ω)	hre (×10)	hoe (μδ)	*fae **fan	NF (dB)	Cob (pF)	Coxrbb'	TO.	NOTE
2N5337	P	S	1	(mW)	200	-	(V)	(mA)	(μA)	Vos(V)	min	max.	lc(mA)		(32)	(^10)	(μ0)	**fao (MHz)	(00)	(pr)	(25)		
	-	-	-	-		80	80	5A	10	80	30	120	-									5	
2N5338	P	S	N	6W	200	100	100	5A	10	100	60		2A			-						5	
2N5339	P	S	-	6W	200	100	100	5A	10	100	60	_										5	
2N5400	Α	S	P	625	150	130	120	600	0.1	100	40	180	10	115					8	6		92	
2N5401	Α	S	P	625	150	160	150	600	50n	120	60	240	10	120					8	6		92	
2N5455	S	S	P	340	200	25	25	300			30	120	30									18	
2N5456	S	S	P	340	200	15	15	300			30	120	30									18	
2N5457	FET	S	N	625	150														3			92	
2N5458	FET	S	N	625	150														3			92	
2N5459	FET	S	N	625	150														3			92	
2N5484	FET	S	N	625	150			Ì										-	2.5			92	
2N5485	FET	S	N	625	150														2.5			92	
2N5486	FET	S	N	625	150														2.5			92	
2N5550	A	S	N	625	150	160	140	600	0.1	100	60	250	10	125					10	6		92	
MPS5551M	A	S	N	625	150	180	160	600	50n	120	80	250	10	125					8	6		92	-
2N5668	FET	S	N	625	150				5011	.23	- 00	200	10	123	_				2.5	0	-	92	_
2N5669	FET	S	N	625	150	-		-	-	-	-	-	-	-		+		-		-		-	
2N5670	FET	S	N	625	150	-	-		_		-	-				-			2.5	-	_	92	
2N5679	P	S	P	10W	200	100	100	1.0		100	40	150	250	40				20	2.5	F.0		92	
	-	-	P	_		100	-	IA	_ !	100	40	150	250	40				30		50		5	
2N5680	P	S	-	10W	200	120	120	IA		120	40	150	250	40				30		50		5	
2N5681	Р	S	N	10W	200	100	100	IA	1	100	40	150	250	40				30		50		. 5	
2N5682	P	S	N	10W	200	120	120	IA	- 1	120	40	150	250	40				30		50		5	
2N5769	S	S	N	625	150	-40	15	500	0.4	20	20		10				-			4		92	
2N5770	Α	S	N	IW	150	30	15	50	10n	15	20		3							1.7		92	
2N5771	S	S	P	625	150	15	15	50	I On	8	50	120	10									92	
2N5830	Α	S	N	625	150	120	100	600	50n	100	80	500	10	60	6		40					92	
2N5831	Α	S	N	625	150	160	140	600	50 n	120	80	250	10	60	6		40				-	92	
2N5832	A	S	N	625	150	160	140	600	50 n	120	175	500	10	125	6		40					92	
2N5833	A	S	N	625	150	200	180	600	10n	160	50	250	10	50	6		40					92	
2N5845	SH	S	N	625	150	50	40	600	0.5	40	25	150	500								_	92	
2N585A	SH	S	N	625	150	50	40	600	0.5	40	35	150	500		-				-			92	_
2N5855	A	S	P	750	135	60	60	IA	0.1	40	50	300	150							15		5	_
PN5855	A	S	P	625	150	60	60	1A	0.1	40	50	300	150	-	_					15	-	92	
2N5856	A	S	N	750	135	60	60	iA	0.1	40		300	150	-		-		-	_		-	_	
PN5856	A	S	N	625	150	60	60	IA	0.1	40	50	300	150		-				-	15	_	5	-
2N5857	A	S	P	750	135									-						15	-	92	
-	-	-	-			80	80	IA	0.1	60		300	150							15		5	
PN5857	A	S	P	625	150	80	80	IA	0.1	60	50	300	150	-						15		92	
2N5858	A	S	N	750	135	80	80	IA	0.1	60	-	300	150							15		5	
PN5858	A	S	N	625	150	80	80	IA	0.1	60	_	300	150							15	51	92	
2N5871	Р	S	P	100W	200	60	60	7A	250	60	20	100	2.5A	20						300		3	
2N5872	Р	S	P	100W	200	80	80	7A	250	80	20	100	2.5A	20						300		3	
2N5873	Р	S	N	100W	200	60	60	7A	250	60	20	100	2.5A	20					A1	250		3	
2N5874	P	S	N	100W	200	80	80	7A	250	80	20	100	2.5A	20						250		3	
2N5875	Р	S	P	150W	200	60	60	IOA	500	60	20	100	4A	20						500		3	
N5876	Р	S	Ρ	150W	200	80	80	IOA	500	80	20	100	4A	20						500		3	
N5877	Р	S	N	150W	200	60	60	IOA	500	60	20	100	4A	20						300		3	
N5878	Р	S	N	150W	200	80	80	I0A	500	80	20	100	4A	20						300		3	
N5879	Р	S	Р	160W	200	60	60	15A	500	60	-	100	6A	20		\Box				600		3	_
N5880	Р	S	Р	160.W	200	80	80	15A	500	80	-	100	6A	20				-		600		3	
N5881	Ρ.	S	N	160W	200	60	60	15A	500	60		100	6A	20						400	-		
N5882	Р.	S	N	160W	200	80	80	15A	500	80	_	100	6A	20		-		-			-	3	
N5883	P	S	P	200W	200	60	-		_	-	_	_	- Andrew	_		-				400		3	
N5884	P	-	P		-	-	60	25A	1000	60	-	100	IOA	20						1000		3	
	P	S	-	200W	200	80	80	25A	1000	80	20	100	IOA	20		-		-		1000		3	
N5885	-	S	N	200W	200	60	60	25A	1000	60	-	100	10A	20						500		3	
N5886	P	S	Ν	200W	200	80	80	25A	1000	80	20	100	IOA	20		i				500		3	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2 N 5 3 3 7	1								
2 N 5 3 3 8									
2 N 5 3 3 9									
2N5400	2SA516A	2SA653		2SA698					
2N5401		2SA653							
2N5455	2SA478	2SA712						•	
2N5456	2SA478	2SA712							
2N5457									FET
2N5458									FET
2N5459									FET
2N5484									FET
2N5485									FET
2N5486									FET
2N5550	2SC 783		2SC 1409 A						
MPS5551M	2SC 783		2SC 1409 A						
2N5668									FET
2N5669									FET
2N5670									FET
2N5679				2SB528					
2N5680				2SB528					
2N5681				2SD358					
2N5682				2SD358					
2N5769	2SC 108					2SC 233			
2N5770									
2N5771		2SA552				2SA559	2SA678		
2N5830	250510			2SC310			2SC 1124		
2N5831	2SC510			250310			2SC 124		
2N5832	250510			2SC310			2SC 1124		
2N5833									
2N 58 45	2SC503		2SC 479			2SC 906			
2N5845A	2SC503		2SC 479			2SC 906	1		
2N5855			2SA743A						
PN5856			2SC 1212A						
2N5856			2SC 1212A						
PN5856			2SC 1212A						
2N5857			2SA743A						
PN5857			2SA743A			-			
2N5858			2SC 1212A						
PN5858			2SC 2 2A						
2N5871	2SB558	2SB539)			
2N5872	2SB558	2SB539							
2N5873	2SD113					2SD53			
2N5874	2SD113					2SD53			-
2N5875	2SB554								
2N5876	2SB554								
2N5877	2SC 1434	2SD132				2SD54			
2N5878	2SC 1434	2SD132				2SD54			
2N5879	2SB554								
2N5880	2SB554								
2N5881	2SD55								
2 N 5882	2SD55								
2N5883									
2N5884									
2N5885	2SD114								
2N5886	2\$D113								

FAIRCHILD

		AL	ے	М	AXIMU	M R	ATING	S					EI	ECTRICA	L CHAR	RACTER	ISTICS						
TYPE	USE	MATERI	POLALITY	Pc os to	Tj	Vcs	VCEO	lc	le	80		hre		hfe	hie	hre	hoe	fT *fare	NF	Cob	Coxrbb	OUTLINE	NOT
		_	_	25°C (mW)	(°C)	(V)	(V)	(mA)	(μ A)	Vos(V)		_	Ic(mA)		(Q)		(µ0)	**fap (MHz)	(dB)	(pF)	(ps)	TO.	
N5910	SH	S	P	310	135	20	20	50			30	120	10									81	
PN5910	SH	S	P	625	150	20	20	50			30	120	10									92	
N5961	Α	S	-	625	150	60	60	50	2n	45	150	700	10	575					6			92	
N5962	Α	S	N	625	150	45	45	50	2n	30	600	1400	10	1300					6			92	
N5963	Α	S	N	625	150	30	30	50	2n	20	1200	2200	10	2100					6			92	
N6121	Р	S	N	40W	150	45	45	4A	100		25	100	1.5A	25		İ						220	
N6122	P	S	N	40W	150	60	60	4A	100		25	100	1.5A	25								220	
N6123	Р	S	N	40W	150	80	80	4A	100		20	80	1.5A	25								220	
N6124	Р	S	Р	40W	150	45	45	4A	100		25	100	1.5A	25								220	
N6125	P	S	Р	40W	150	60	60	4A	100		25	100	1.5A	25								220	
N6126	Р	S	Р	40W	150	80	80	4A	100		20	80	1.5A	25								220	
N6129	Р	S	Ν	50W	150	40	40	7A	100		20	100	2.5A	25								220	
N6130	Р	S	N	50W	150	60	60	7A	100		20	100	2.5A	25								220	
N6131	Р	S	N	50W	150	80	08	7A	100		20	-	2.5A	25								220	
N6132	Р	S	Р	50W	150	40	40	7A	100		20		2.5A	25								220	
N6133	Р	S	Р	50W	150	60	60	7A	100		20	-	_	25						1		220	
N6134	P	S	P	50W	150	80	80	7A	100		20		2.5A	25								220	
N6233	Р	S	N	50 W	200	250	225	IOA	100	250	-	125	IA							250		66	
N6234	P	S	Ν	50W	200	300	275	10A	100	300	25	_	1A				_	-	-	250		66	
N6235	Р	S	Ν	50W	200	350	325	IOA	100	350	25	125	1A							250		66	
E9051	Р	S	N	50W	200	300	275	IOA	100	300	20	100	IA					20	-	250	1	66	
E9052	P	-	N	50W	200	325	325	IOA	100	325	20	100	IA			-		20		250	-	66	
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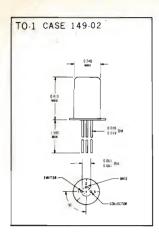
TYPE	TOSHIBA	N C	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N5910		2SA552				2SA559	2SA678		-
PN5910		2SA552							
2N5961		2SC 1400					2SC 632A		
2 N 5 9 6 2		2SC 1400					2SC 632A		
2N5963		2SC 1400					2SC 632 A		
2N6121	2 SC 493	2SD180	2SC 897		2SC 647			2SC 1051	-
2N6122	2SC 493	2SD180	2SC 897		2SC 647			2SC 1051	
2N6123	2SC493	2SD180	250897		2SC 647			2SC 1051	
2N6124	2SA657		2SB87					2SB411	
2N6125	2SA657		2SB87					2SB411	
2N6126	2SA657		2SB87					2SB411	
2N6129			2SC 897						
2N6130			2SC 897						
2N6131			2SC 897						
2N6132			2SB87		2SB129			2SB410	
2N6133			2SB87		2SB129			2SB410	
2N6134			2SB87		2SB129			2SB410	
2N6233	2SC 1434	2SD181A	2SD429				2SD262		
2N6234	2SC 1434	2SD377 1	2SD429				2SD262		
2N6235	2SC 1434	2SD377	2SD429						
SE9051	250 1434	2SD377	2SD429				2SD262		
SE9052	2SC 434	2SD377	2SD429						
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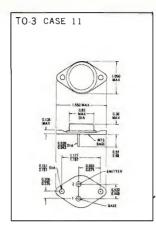
Type USE P S Cot			₹	-	_	AXIMU	M K	ATING	5					٤١	ECTRICA	L CHAR	RACTER	STICS	1-1-				OUTLINE	
SPT2770 P S N 200W 175 75 60 20A	TYPE	USE	MATER	OLALI				1						1-/-4)	hfe				*fae **fab					NOT
2873055	CDT2770	-		₩		_				(µA)	VOS(V)	-	max.	_		(32)	(7.10)	(,,,,,,	(MHz)	(00)	1917	(μα)	62	
SPT3055-1 P S N 115W 200 80 50 15A 15 3A 10 3 3 3 3 3 3 3 3 3		-		+		-		-	-		-		70			_	-		-		-	-		
28 N3232		-	-	-			-		_		-	-	70	_		_	-				-			
Registrate P S N 117W 200 55 55 15A		_				_	-	-	-					-		-	-				-	-		
P S N 10W 200 450 350 1A 20 360 40 160 20 25		-		-		-		-		-		-	-	-		-	-					-		
Name				_				_				_	-	-			-				-	-		
RN3713		-		-		_		-	_		-		_	-								_		
RN3714		-		-			_			20	250	_	-				-		-		10	-		
RN3715		-	-	-		_	-	-	-				-	_	_							ļ		
Record Part Record Rec				-		_		-					-											
SPT3738		_							_			_			_									
2N3771		l		-		-			IOA			50	150	IA	4								3	
RN3772				N			_	225	3A			50		250	10								66	
PARTATA P S N 150W 200 160	2N3771	Р	S	N	150W	200	50		30A			15	601	15A	40								3	
PARTATES P S P 150W 200 60 60 10A		_	S	N	150W	200	100		30A			15	601	10A	40								3	
28 27 28 28 28 28 28 28	N3773	Р	S	N	150W	200	160		30A			15	60	8A	40								3	
RN3791	N3789	Р	S	P	150W	200	60	60	IOA			25	90	IA					4				3	
PARTON P S P 150W 200 80 80 10A 50 150 1A 4 3 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	N3790	Р	S	P	150W	200	80	80	IOA			25	90	IA					4				. 3	
2NA3792 P S P 150W 200 80 80 10A 50 150 1A 4 3 2NA4000 P S N 15W 200 100 80 1A 30 120 500 2 2NA4001 P S N 15W 200 120 100 1A 40 120 500 2 2NA398 P S P 200W 200 40 40 30A 1000 60 15 60 15A 40 4 3 2NA399 P S P 200W 200 60 60 30A 1000 60 15 60 15A 40 4 3 2NA399 P S P 200W 200 175 150 1A 1 20 200 1 2NA5281 P S P 2W 200 175 150 1A 1 20 200 1 2NA5282 P S P 2W 200 325 300 1A 1 20 20 0 1 2NA5282 P S P 2W 200 325 300 1A 1 20 20 0 1 2NA5390 P S N 200W 200 40 40 30A 1000 40 15 60 15A 40 4 3 2NA5391 P S N 200W 200 40 40 30A 1000 40 15 60 15A 40 4 3 2NA5391 P S N 200W 200 40 40 40 30A 1000 40 15 60 15A 40 2 3 2NA5301 P S N 200W 200 60 60 30A 1000 60 15 60 15A 40 2 3 2NA5303 P S N 200W 200 60 60 30A 1000 60 15 60 15A 40 2 3 2NA5303 P S N 200W 200 80 80 20A 1000 80 15 60 10A 40 2 3 2NA5303 P S N 200W 200 80 80 20A 1000 80 15 60 10A 40 2 3 2NA5303 P S N 200W 200 80 80 20A 1000 80 15 60 10A 40 2 3 2NA5303 P S P 200W 200 80 80 20A 1000 80 15 60 10A 40 2 3 3NA545 P S P 200W 200 80 80 20A 1000 80 15 60 10A 40 2 3 3NA545 P S P 200W 200 80 80 20A 1000 80 15 60 10A 40 2 3 3NA545 P S P 200W 200 80 80 20A 1000 80 15 60 10A 40 2 3 3NA545 P S P 200W 200 80 80 20A 1000 80 15 60 10A 40 2 3 3NA545 P S P 200W 200 80 80 20A 1000 80 15 60 10A 40 2 3 3NA545 P S P 200W 200 80 80 20A 1000 80 15 60 10A 40 2 3 3NA545 P S P 200W 200 80 80 20A 1000 80 15 60 10A 40 2 3 3NA545 P S P 200W 200 80 80 20A 1000 80 15 60 10A 40 2 3 3NA545 P S P 200W 200 80 80 20A 1000 80 15 60 10A 40 2 3 3NA545 P S P 200W 200 80 80 20A 1000 80 15 60 10A 40 2 3 3NA545 P S P 200W 200 80 80 20A 1000 80 15 60 10A 40 2 3 3NA545 P S P 200W 200 80 80 20A 1000 80 15 60 10A 40 2 3 3NA545 P S P 200W 200 80 80 20A 1000 80 15 60 10A 40 2 3 3NA545 P S P 200W 200 80 80 20A 1000 80 15 60 10A 40 2 3 3NA545 P S P 200W 200 80 80 20A 1000 80 15 60 10A 40 2 3 3NA545 P S P 200W 200 80 80 20A 1000 80 15 60 10A 40 2 3 3NA545 P S P 200W 200 80 80 20A 1000 80 15 60 10A 40 2 3 3NA545 P S P 200W 200 80 80 20A 1000 80 15 60 10A 40 2 3	2N3791	Р	S	P	150W	200	60	60	IOA			50	150	IA					4				3	
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RN4398		P	-	N				-				_			2								_	
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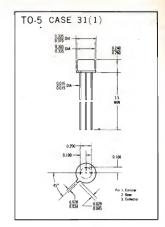
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2N3715	2SC1434					2SD196A			
2N3716	2SC1434					2SD196A			
SPT3738	2001101				2SD246		2SC808		
N3771	2SD113	2SD179			100011				
2N3772	2SD113	2SD179		-		2SD250			1
2N3772 2N3773	2SD113	2SD179			-	200200		1	+
	2SB554	230173							
2N3789			-	-			1	-	+
2N3790	2SB554	-	-	-			-		-
2N3791	2SB554	-							-
2N3792	2SB554	20072	200:00	207020		20040	-		
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2N4001	2SD102	2SD152	2SD123	2SC766		2SD48			-
2N4398								1	-
2N4399									-
SPT4625									
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2N5301	2SD113	2SD179							
2N5302	2SD113	2SD179							
2N5303	2SD113	2SD179							
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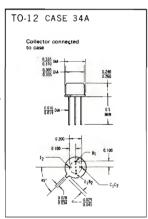


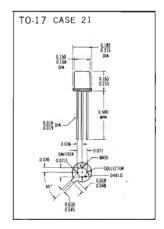
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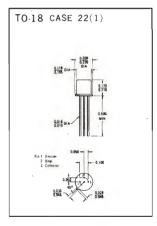




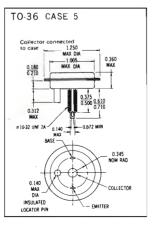


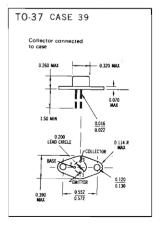


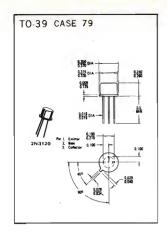


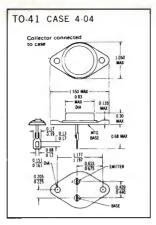


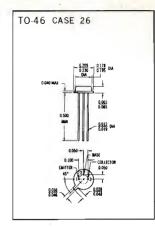


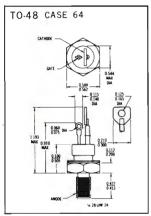


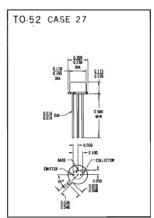


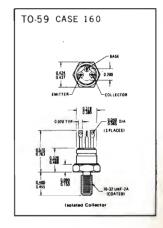


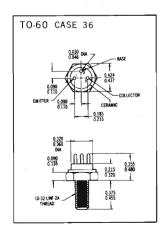


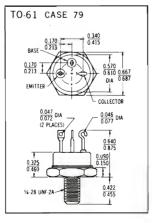


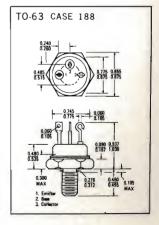


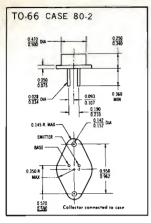


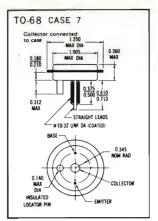


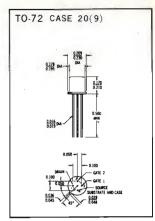


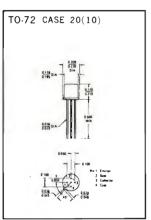


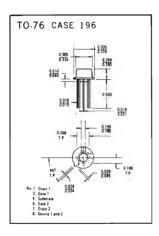


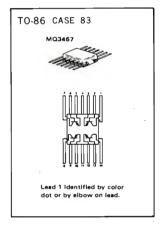


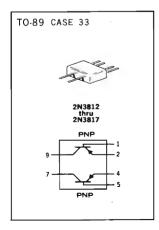


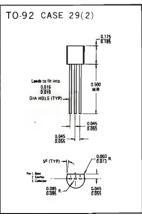


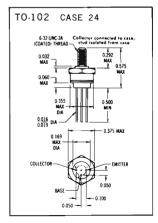


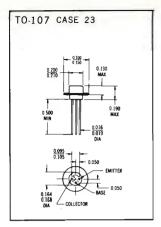


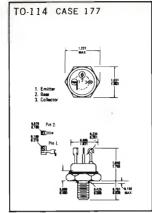


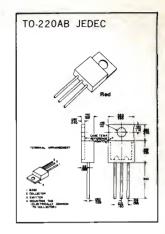


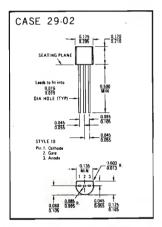


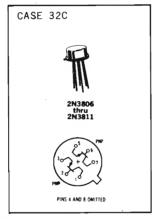


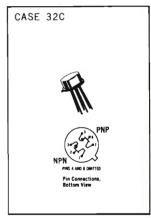


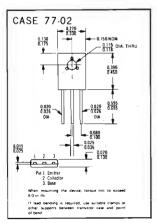


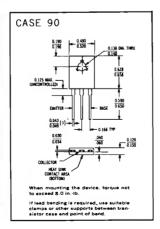


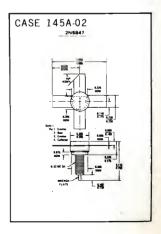


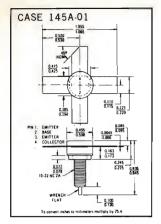


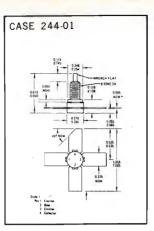


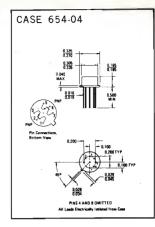


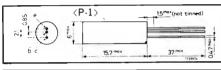


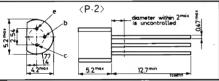


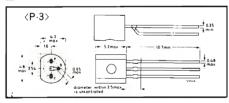


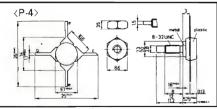


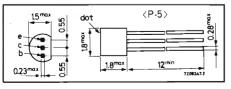


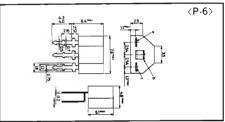


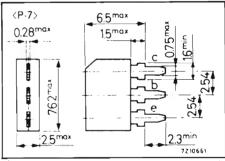


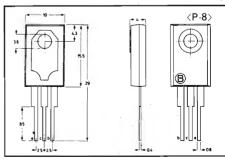


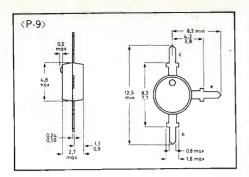


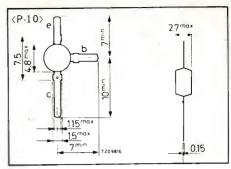




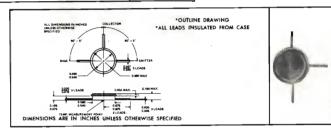


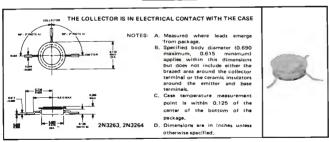


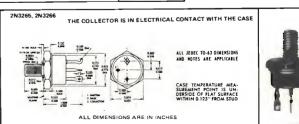




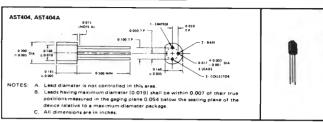


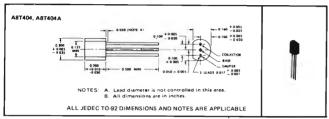


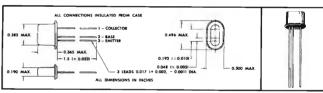


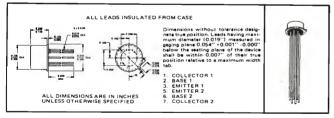


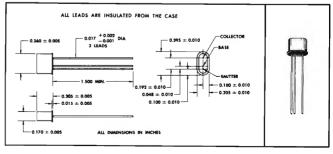


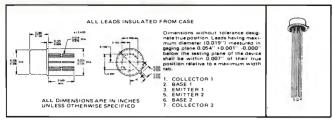




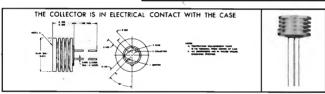


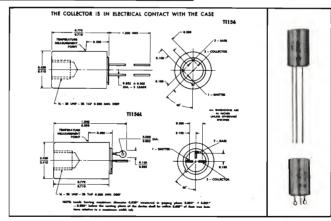


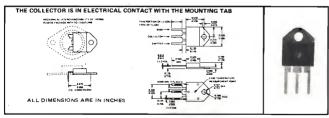


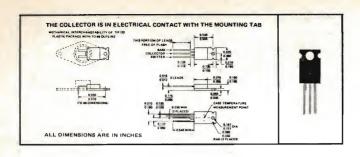


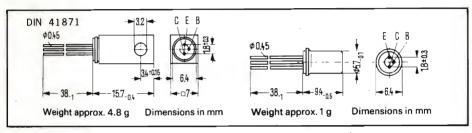


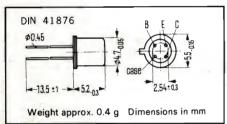


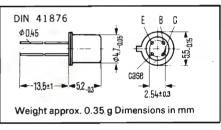


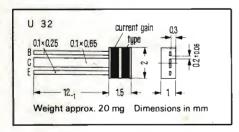


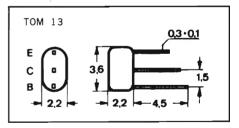


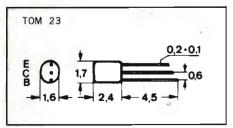














L. 8.000 (L. 7.547)